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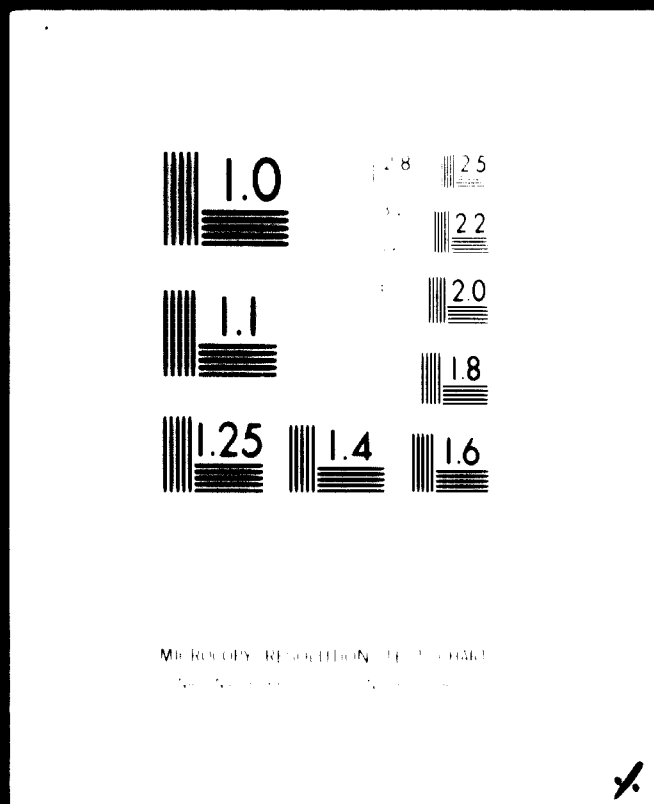
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SYNOPSIS

Here, in a highly condensed format, are the major facts, conclusions, and recommendations of this study:

Findings of Fact

The Domsuiza manufacturing facilities were never completed. Some of the production equipment was not delivered. Much of it is outdated.

The existing facilities have suffered extensive deterioration and damage from weather and years of non-use.

The Domsuiza operation is seriously insolvent.

The balance sheet shows a working capital deficit of RD\$587,000.

The book value of fixed assets is overstated by more than RD\$2,000,000 as related to the current value of fixed assets.

Creditors' claims exceed the actual value of assets by more than RD\$2,700,000.

Restoration of plant facilities and the purchase and installation of missing equipment would require over RD\$1,000,000 additional investment capital.

After complete financial and physical restoration of the plant, full scale production would require an additional investment of over RD\$500,000 as working capital.

Product costs are heavily dependent on raw material costs which at Domsuiza are extraordinarily high.

Over 80 per cent of these raw material costs are from imported raw materials.

The existing Ozama and Barahona bagasse briquetting facilities are not capable of producing Domsuiza's annual requirements with existing equipment.

Conclusions

The extrusion process for producing bagasse particle-board is obsolete.

Veneered bagasse board produced with the Domsuiza extrusion process is qualitatively inferior to competitive products.

Financing for Domsuiza will be extremely difficult if not impossible to find.

Veneered bagasse board, plywood and veneer cannot be sold internationally at competitive prices.

Although some veneered bagasse board could be sold domestically at competitive prices, local markets are not large enough to sustain a profitable operation of Domsuiza.

Domsuiza cannot be operated profitably producing veneered bagasse board, plywood, veneer, or any combination thereof.

Prefabricated bagasse board housing cannot be produced as inexpensively as cement houses.

Recommendations

Sanderson & Porter, Inc., based on the available facts, concludes that rehabilitation of the Domsuiza facilities will not prove profitable. It is our unqualified recommendation that the Domsuiza enterprise be liquidated and the buildings and acreage made available to other enterprises which could be productive and profitable.

BACKGROUND

Glossary

A study such as this necessarily contains many technical terms. For the reader who is unfamiliar with bagasse board technology, here is a glossary of these terms:

Additive: Any material added prior to final consolidation of a panel, to improve some property of the finished board or to achieve a desired effect in combination with some other additive material.

Back: Usually the rear or unexposed surface of a plywood sheet that requires normal strength, but does not demand any selection for appearance. Should be reasonably equivalent to the face in thickness and strength.

Bagasse fiber: The threadlike tissue (as distinct from pith) of the residue from the manufacture of sugar from sugar cane.

Bagasse particleboard: A sheet material manufactured from bagasse fiber by compressing and bonding together with one or more organic binders. Also referred to in this report as bagasse board.

Bagassosis: A respiratory disease caused by bacteria which breed in moist bagasse.

Barker: (1) a machine for removing bark from logs
(2) a worker who removes bark from the log.

Binder: An organic adhesive material, usually a synthetic thermosetting resin such as urea-formaldehyde or phenol-formaldehyde, which provides the primary internal bond of finished particleboard material.

Blister (gluing error): A spot or area where the veneer does not adhere and bulges like a blister. It may be caused by lack of glue or adhesive or inadequate pressure. In hot pressing it may be caused by a pocket of steam, which often ruptures the veneer.

Block: That section of the log, usually 4 to 10 feet long, from which the sheets of veneer are cut.

Block setter: One who directs the placing of the log into the veneer lathe. The term blocker is also used in the industry.

Board foot: A piece of lumber 12 inches square (nominal) and 1 inch thick (nominal) or its equivalent in volume 144 cubic inches of wood.

Briquette: A mass of loose material (e. g. bagasse) pressed into a solid form.

Briquettor: A machine for forming briquettes.

Bulk storage: A place for, or the act of storing material in loose unpackaged form.

Case harden: To produce a hard surface on wood by heating or other methods.

Catalyst: A reagent that accelerates a chemical reaction, with or without heat. In the case of resinous adhesives, it accelerates setting or hardening. A hardener for resin adhesives.

Caul: Used in hot pressing, approximately 1/16" thick and the size of the hot-press platens. Plywood assemblies or veneered boards are sometimes inserted

between pairs of cauls, to facilitate loading the press, and to protect plywood faces from contact with the steel plates of the hot press.

Caul, plywood: Used in cold pressing with conventional glues, to assure undamaged faces and to prevent transmission of defects to adjacent assemblies. Usually 1/4 to 3/8-inch thick with waxed surfaces, to avoid adhesion.

Checks: Small hairline splits which generally occur only in finely figured crotches and burls, caused chiefly by strain produced in the seasoning. In highly figured veneers these checks add beauty to the character of the figure and are not looked upon as defects.

Clipper: The shearing machine used to cut green or dry veneers.

Cooking vat, or heating vat: An open pit, containing water heated by steam, to cook or stew the blocks or slitches, to facilitate smooth knife cutting on lathes and slicers.

Core: (1) The center stock of a plywood panel.
(2) The center of a log that is left after it has been peeled on a rotary lathe.

Cross-banding: The veneer sheet(s) between the core and the face veneer. Its grain runs at right angles to the grain of the core.

Curing: The physical-chemical change that takes place either to thermosetting synthetic resins (polymerization) in the hot presses or to drying oils (oxidation) used for oil-treating board. The treatment to produce that change.

Cut-up operation: In board remanufacture the process of reducing the size of panels.

Cyclone: A large conical chamber in which material is separated from a conveying air stream.

Density: The weight of a material in relation to its volume. Commonly expressed in pounds per cubic foot, or kilograms per cubic meter.

Dryer or drier, Veneer: A kiln, chamber, or machine, through which the green or fresh veneer sheets are passed, to remove the excess moisture.

Extruded Particle Board: Resin-bonded particle board manufactured by curing the resin in the particles while they are being forced through a die. A board manufactured with the applied pressure in the direction of the plane of the sheet and in the direction of the length as extruded.

Face: Veneer used on the exposed side of plywood or veneered board, usually carefully selected and matched where appearance is required. When location or use demands, face veneer is used on both sides.

Face Veneer: The veneer sheet on the upper side of a plywood panel.

Feeder, regulating: A conveyor or similar device capable of adjusting the flow of the material being conveyed.

Fiber: The slender threadlike elements of wood, bagasse or similar cellulosic material, which, when separated by chemical and/or mechanical means, as in pulping, can be formed into fiberboard or particle board.

Fiber bundles: Threadlike groups of wood, bagasse, or similar fibers, held together by their natural binders, suitable for coarse pulps such as are used for fiberboards. Also sometimes referred to as "fibers!"



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Fiberboard: Sheet material manufactured from fibers of bagasse or wood, lignocellulosic materials with the primary bond deriving from the arrangement of the fibers and their inherent adhesive properties. Bonding agents or other materials may be added during manufacture to increase strength, resistance to moisture, fire, insects or decay, or to improve some other property of the product.

Fines: The fraction of refined fibers which are of the smallest size.

Flash Drying: Method used in dry process board manufacture to rapidly dry refined fibers in a fast-moving stream of heated air.

Flat-platen pressed board: Board pressed in a parallel platen hot press, usually of a multi-platen type. Applied pressure is perpendicular to the plane of the sheet.

Flitch: A hewn or sawn section of a log made ready for cutting into veneers by shaping up the edges.

Flying saw, automatic: A machine for cutting to length a mat or board moving in the direction of length while the mat or board is in motion.

Formation (forming): The laying of the blended mass of particles to form a mat for particle board.

Glue Spreader: A double corrugated roller machine to apply coatings of adhesive on both sides of the veneer or particleboard preparatory to the layup. Metal rollers are used principally with glues, and rubber rollers with resin adhesives.

Hammermill: A machine having rotating hammers for reducing the size of fiber or other material by a series of hammer blows against the material on parts of the machine including screens.

Hardboard: Compressed fiberboard of certain prescribed densities.

Hardwoods: General term used to designate the lumber or veneer produced from broad-leafed or deciduous trees in opposition to the so-called softwoods, those produced by evergreen or coniferous trees.

Hog: A machine with interlocking blades which cuts the scrap into small chips for removal to the boiler.

Hot-pressing: Process of compressing the particle-additive mat to the required density and causing curing of the resin binder by means of elevated temperature; may be accomplished in multiple-opening hydraulic press or continuous-type press.

Lignocellulosic: Consisting of cellulose in intimate association with lignin; woody.

M: In this report the abbreviation used to denote the quantity 1000.

Mat: Uncompressed mass of particles or fiber intimately mixed with resin binder and other additives, formed to proper size and shape for pressing stages of manufacture.

Meg - Megger: (1) The electrical resistance to ground of a motor winding or insulated conductor expressed in ohms or megohms. (2) The instrument used to obtain this resistance.

Mixer: Machine in which correct proportion of particles or fiber, adhesive and sizing agent are mixed thoroughly to provide material for formation of mat.

Moisture Content: The amount of water in a body of material, usually expressed in percentage form as the ratio between the weight of water and the weight of dry material.

Multi-layer board: A board made of several layers of like material. Includes boards made from layers with particles of different shapes and sizes.

Multiple platen press: See Press, Hot press.

Overs: Particle or fiber aggregates too large to pass through a sizing screen.

Paddle mixer: A mixer for board additives having paddles to stir the material.

Panel: A sheet or piece of plywood, particle board, or veneered bagasse board.

Particleboard: A sheet material manufactured from small pieces of lignocellulosic materials (e. g. chips, flakes, splinters, fibers, strands, shaves) agglomerated by use of an organic binder together with one or more of the following agents: heat, pressure, moisture, a catalyst, etc. The primary bond derives from the combination of binder and agents used.

Patch: Insertions of sound wood placed and glued into veneer, from which defective portions have been removed.

Pith: The soft spongy center of a plant stem, specifically of sugar cane. One of the constituents of bagasse.

Pith Fraction: The part of the bagasse material that is pith expressed as a fraction or percentage.

Platens: The heat bearing plates of the hot press usually of rolled steel with drilled holes in intersecting grid patterns for steam distribution.

Ply: A layer or lamination of a plywood panel.

Plywood: An assembled product made of layers of



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vener and/or lumber and adhesives, the chief characteristic of which is the alternate cross layers distributing the longitudinal wood strength. This product cannot be split, and shrinking and swelling under the influence of moisture is reduced to a minimum.

Press, (Cold press): A hydraulic or screwpress in which the glued members are forced together. The pressure is maintained after removal from the press by clamping the bale or bundle of glued members between headblocks with clamp irons and turnbuckle rods.

Press, (Hot press): A multiplaten hydraulic press with plates or platens, heated by steam for thermosetting resin adhesives.

Press, Hydraulic: A press in which hydraulic pump pressure is furnished to the press pistons or rams which usually operate upward in closing the press. Accurate pressure regulation is practical.

Ram: In this report, the part of the extrusion machine which produces pressure in the direction of the length of the board.

Remanufacture: A secondary process on an already manufactured board to upgrade its quality or use.

Residual Value: The present value of equipment and buildings to Domsuiza - assuming the plant is to be rehabilitated. Set at 10%-30% of original price depending on present condition. Typically higher than salvage value.

Resin: As used in this report, material which is the main binder in particle board and the adhesive in plywood manufacture.

Resin Content: The amount of dry solids of resin, related to the dry weight of the finished board.

Resin, Phenolic: Phenolic resin adhesives are made from phenol and formaldehyde, harden only in the presence of heat, and are the most durable. They are available in liquid, powder, and film form.

Resin, Synthetic (Thermosetting): Artificial resin used in board manufacture as a binder. A combination of chemicals which can be polymerized, e. g. by the application of heat, into a compound which is used to produce the bond or improve the bond in a fiberboard or particle board. Types usually used in board manufacture are phenolformaldehyde, urea formaldehyde or melamine-formaldehyde.

Resin, Urea: Urea resin adhesives are made from ureas and formaldehyde, harden when heated, and in the presence of certain chemicals (catalysts or hardeners). This hardening can be rapid and at moderate temperature.

Salvage Value: Value of equipment and buildings if sold on the open market.

Sliver Patch: A patch to upgrade face veneer of a shape nearly square in cross section and of considerable length compared to thickness.

Size: Alum, wax, petroleum, asphalt, resin or other material used as an additive in particle board manufacture, primarily to increase water-resistance.

Three Layer Panel: A particle board process which creates a differentiation between layers at the faces and in the center, with respect to density, type or size of particles, or other characteristics.

Veneer: A thin sheet of wood rotary cut, sliced or sawed from a log, block, or flitch. Veneer may be

referred to as a facing when adhered to one or both sides of particle or chip board, or hardboard. Veneer is the raw material for plywood manufacture. The thickness may vary from 1/100" to 1/4".

Veneer Splicer: A machine that joins fractional pieces of veneer either by tape splicer or by glue under heat and pressure on the tapeless splicer.

Wax, petrolatum: A petroleum product used in particle board manufacture to increase moisture resistance and surface smoothness.

Bagasse Board

Bagasse is a by-product of the sugar refining process. Normally it is used by the refinery as a fuel to produce steam. During the last thirty years, much effort has been focused on finding a more practical and profitable use for bagasse. One of the most common approaches to this problem is the bagasse particleboard plant.

Although there have been many bagasse particleboard plants built throughout the world, successful manufacturing and profitable marketing of the product has proved a complex and difficult assignment.

Several different processes are used in the production of bagasse particleboard. Although no single process has emerged as dominant, no successful process employs the extrusion press such as the one at Domsuiza. One mistake common to bagasse board manufacturers has been the utilization of equipment from suppliers in related fields. The assumption has been that machinery for producing conventional particleboards will work as effectively with bagasse. In almost all cases this has created operating difficulties, poor quality products, and marketing failures.

Generally, the development of bagasse particleboard technology has lagged behind that of the wood particleboard industry. As a result, the quality of Domsuiza's veneered bagasse particleboard could not compare with that of boards derived from wood.

It cannot be said definitively whether or not bagasse board production is an economically viable enterprise. Production economies are almost totally conditioned by local variables.

The following are some case histories of bagasse particleboard plants:

Productos Cubanos de Bagazo, S.A.: This was the first "dry process" plant built to utilize bagasse as a raw material. Its first season of operation was in 1958. The equipment was supplied by Taylor Woodrow and U. S. Wallboard Machinery; it included a vertical moving platen type press. During its first year of operation, product quality problems were encountered which

resulted in unsuccessful marketing activity. In addition to poor quality there was an objectionable odor resulting from the resin used.

In an attempt to solve these problems, modifications were made in two plant areas: fiber preparation and mat distribution. In order to remove a greater percentage of the unusable pith from the bagasse a more sophisticated fiber preparation process was installed. With a new preparation system, the usable bagasse fiber yield was only 60 per cent. The pith was conveyed to the boilers to be burned as fuel for producing process steam. The main benefit obtained by refining the fiber preparation system used was through reduction of resin requirements and an improved mat formation operation. The pith had absorbed more resin than the high quality fibers. In the mat forming an optimum layering effect was obtainable only when high quality fibers were used. The new fiber preparation system improved the resin odor problem which in turn improved the quality based on normal measuring techniques. The disadvantages of the new system were higher initial cost, and higher operating costs due to increased amounts and complexity of equipment.

Since 1960 very little information is available but reportedly, this plant was closed down.

Taiwan - Manson Hardboard Corporation: This plant was the second "dry" process facility completed. The equipment was supplied mainly from U. S. Wallboard Corporation and was similar to that of Productos Cubanos de Bagazo, S.A.

It also was equipped with a vertical moving platen type press. The same problems were encountered in this plant with regard to resin odor and product quality. Equipment modifications have been made to overcome the initial difficulties. It is reported that the plant is running successfully today, but such information comes from equipment vendors and requires more objective verification.

Taiwan Sugar Corporation, Kaehsiung, Taiwan: Plant operations started here in 1960. The equipment and process were supplied by Baehe of Germany and included a vertical moving platen type press. The general contractor was Becker & van Hullen, also of Germany. This was the third facility to be installed using the "dry" process.

The boards produced are used in the building industry as partition walls, doors, floor underlayments and roof sheathing. Other product applications are claimed for the furniture industry, and for the interiors of ships.

During the sugar harvesting season, bagasse is baled and stored at the various mills operated by Taiwan Sugar Company. As needed, the bales are broken up and the loosened fibers are conveyed through a metal detector, a system of screens, air separators, mills, sifting devices and special dryers. During this stage the pith and fines are removed.

Moisture content is reduced to approximately five per cent in the dryers. The fibers are then weighed automatically by a continuous scale, and passed to a resin and fiber mixing device which is controlled by the scale. Close accuracy is required in controlling metering of the resin so that resin costs are minimized and a uniform mixture is assured. The mixture of bagasse and resin then passes to bunkers which feed it continuously to the forming machine.

The Baehre process can produce one layer or three layer boards, and by use of a special layering method can spread the finer particles on the surface of the board. This results in a surface which, after sanding, is suitable for direct face veneering without cross-banding.

The Baehre mat forming machine and its unique fiber laying technique appear to be the most attractive part of this system. It produces a board with unique surface quality, with most types of finishing to be applied successfully with a minimum of extra processing.

Fibrelite Corporation, Vacherie, Louisiana: This plant was originally built in 1962-63 by the National Building Products Corporation. The equipment came from Germany, with Baehre supplying the major processes. The plant was designed and built at a capital cost of well over \$2,000,000 and was equipped with a vertical moving platen type press.

Again, during initial operations, fiber preparation and product quality problems were encountered (these two factors are almost

always related). The same process and equipment changes for fiber preparation used at the Cuban plant were made at this installation. After an appreciable amount of development work a new fiber preparation system was evolved and patented. This system removed 30 to 35 per cent of the original bagasse as pith and fines. Additional changes were made in the material forming system and these helped solve the original problems.

The solution of these technical problems took more than 18 months and during this time there was little success in marketing. The plant attempted to supply all types of board to the entire United States market, this resulted in very high production, distribution and selling costs. In 1965 National Building Products was taken over by creditors in receivership proceedings.

The plant was subsequently purchased by principals of the Swiss Precision Machinery Company, San Juan, Puerto Rico. This company manufactures, designs, and sells equipment for processing bagasse and similar materials.

The name of the plant operating company was changed to Fibrelite Corporation and the product produced today is door cores. The fiber preparation system was changed to the Swiss Precision Machinery process. This basically consists of an SPM Hammer-mill and depithing machine. The plant today has reportedly been operating successfully and has been sold to new interests.

Tablopan de Venezuela, Venezuela: Started in 1965, this plant was designed by Columbia Engineering Company, in conjunction with the staff of Central El Palmar (the sugar mill providing raw bagasse), and was equipped with a vertical moving platen type press. Since an export-import bank loan provided 50 per cent of the capital financing, a major portion of the equipment must have come from the United States.

It is reported that this facility is capable of producing low, medium, and high density boards. Its production schedule for 1965 called for 9,000 tons; in 1969 it is expected to produce 14,000 tons.

The following claims are made for Durotab, the plant product which is used for simple and economical forms of construction: it has

two identical and perfectly smooth surfaces; it can be supplied perforated; it can be easily cut with common tools; it has a long usable life and is resistant to water, moisture, and atmospheric penetration, special treatments render it termite and fungus proof; it is manufactured under rigid controls to meet the most rigorous standards set for hardboard, and paper products production.

Based on extensive testing, the company has developed techniques for the production of Muffitab, a strong, rigid board for manufacture of modern furniture. It is similar to Durotab, but it can be used "as is" with veneers which are glued on using hot or cold methods.

Another proposed product is Sonotab, an insulating board for large surfaces. Because of its low thermal conductivity, the product can also be used as a sound barrier thermal insulation. In addition, painting will not alter its properties. Sonotab is suggested as a thermal and sound insulation for ceilings, roofs, and walls.

At present, the Tabloplan plant uses 20,000 tons of raw bagasse per year. The investment in equipment and other assets exceeds \$3,000,000.

Bagapan, Reunion Island: This plant was started in 1965. The process and equipment was provided by Siempelkamp of West Germany. Its press features the caulless tray system, and the plant is equipped with a vertical moving platen type press.

The caulless tray system has not worked as efficiently as had been expected. Retention time in the press (and pre-press, where one is used) is short, so that in order to achieve proper settings, higher than average resin dosages are required. Since resin is a high cost import, this increases raw materials costs and working capital requirements.

No reliable information on product quality or acceptability is available.

Ecoploy, S.A., Mexico City: This was a second hand "dry process" plant of simple design. It was supplied by Wayrock of the United

Kingdom and featured a vertical moving platen type press. Interestingly, this was the only bagasse board plant using an Emerite resin.

The plant was a successful operation, based on a narrow product line, low depreciation charges, (second-hand equipment) and a simple straight line operation. Sophisticated equipment was not used here because of an abundance of low cost labor. Reportedly, the plant has been shipped to Western Mexico closer to the material supply where it has been rebuilt.

Bagasse Products Company, Ltd., England: The only information available on this new company was in the following report from the International Sugar Journal:

Tate & Lyle Ltd., were joining the S. Hille & Co. Ltd. a United Kingdom furniture making company, in the formulation of a new company, Bagasse Products Co. Ltd. Bagasse is imported from the Tate & Lyle Group of sugar factories in the West Indies, where, after pressing into low density bales and storing for four to eight months in the open air, the moisture content is reduced from 50 to an average of 15 per cent. After this curing period, the bales are compressed again into high density bales and shipped to Plaistow Wharf where a pilot plant was installed in September 1964 to produce "Bagelle".

This product, supplied in board and loose form, is prepared from the bagasse fiber and contains 15 per cent of thermosetting phenol-formaldehyde resin and other additives. The "Bagelle" board is a semi-cured partly compressed board designed to allow users of laminating presses to manufacture strong, waterproof, exterior grade board in thicknesses of five mm(3/16 inch) or more to their own requirements, as well as moulding three-dimensional objects using techniques developed by Bagasse Products Co., Ltd.

The "Bagelle" boards can be produced in sizes up to eleven feet by three feet-one inch, and can be processed to allow varying density, strength and thickness. They can be cut to shape, moulded and faced with wood

veneers, melamine papers or fabric and, since the material displays no "telegraphing" or show-through on core material, it needs no sanding before facing. Screw threads and metal fittings may be incorporated during pressing.

Standard Building Products, Ltd., Jamaica: This is a large new plant presently operative. Details of the process and equipment are kept confidential and visitors are not allowed to visit the plant. The following is an April 1967 press release which summarizes the project:

The first completion stage of Standard Building Products, Ltd's \$9,250,000 bagasse board plant near Spanish Town has been completed. The Esso owned and operated plant is expected to be in operation by October. This first phase includes the installation of equipment necessary for processing bagasse into pellets for storage.

Construction began at the 15-acre site in November 1965. Two North American firms, Columbia Engineering Company and Johnson & Johnson, Engineers & Architects, Inc., are responsible for the mechanical design and engineering but the construction work and installation of equipment have been sub-contracted to local contractors.

Several buildings have been completed to date, including the bagasse pellet storage building (capable of containing 20,000 tons of compacted bagasse for use out of crop), an administrative block, power house, machine shop, bagasse fiber disintegrating mill and raw bagasse drying unit. Tests are currently being made on the pellet-forming machinery prior to processing bagasse for storage.

Standard Building Products will be able to utilize 75,000 tons of raw bagasse annually for conversion into 30,000 tons of high quality building boards. This represents approximately five per cent of the total bagasse available on the island each year.

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**TECHNO-ECONOMIC STUDY
INDUSTRIAL DOMINICO SUIZA, C. POR A.**

**PREPARED
FOR
THE
UNITED NATIONS**

April 1969

**SANDERSON & PORTER, INC.
New York, New York**

Approximately 2/3 of the plant's output will be exported during its early years until domestic demand increases. Although several plants in the world utilize bagasse as a raw material for the production of particleboard, none of the plants are currently producing as wide a range of products. In addition, it is claimed that no particleboard has yet been commercially produced with the smooth hard surface that the Jamaican plant is designed to manufacture with its vertical moving platen type press.

Particleboard

The veneered bagasse board that is Domsuiza's chief product is classified by the industry as a particleboard, thus general trends for this kind of product have been examined.

Particleboard provides a means of utilizing forest logging wastes or other lignocellulosic fibers previously unsuitable for anything except fuel. The growth of the particleboard industry since the first commercial plant was constructed in 1941 has been spectacular. Typically these plants are located close to the source of raw material and end markets. Usually, they can be built and operated for much less than plywood mills or hardboard/insulation-board plants. They are particularly attractive investments for saw mills and furniture manufacturers who can thus take advantage of waste materials.

World Market: In 1969 plywood is expected to comprise approximately 52 per cent of the world market for panelboards. Particleboard will supply 26 per cent of this market and fiberboard will account for 22 per cent. Analysis shows that the particleboard share of this market has increased by nearly 4 per cent since 1966. Utilization of plywood has decreased by 3 per cent and the fiberboard figures remain the same.

For the same period, the world's production capacity for panelboard increased by 20-25 per cent. Of this, particleboard showed the greatest increase (45 per cent), while plywood production capacity increased 20 per cent and fiberboard 15 per cent.

Exhibit A

**Production of Plywood and Particleboard
Within the United States (1000 ft)**

	1963	1964	1965	1966	1967
Hardwood Plywood (3/4" basis)	869,670	962,670	1,022,781	1,038,611	953,301
Softwood Plywood (3/4" basis)	5,187,348	5,227,351	6,213,821	6,424,339	6,419,753
Particleboard	496,491	638,402	780,180	996,870	1,119,479
Total Production	6,553,509	6,828,423	8,016,782	8,459,829	8,492,533
Particleboard produced using the extrusion process	40,678	46,705	49,277	49,267	45,459
Extrusion board production as a percentage of total particleboard production	8.19%	7.31%	6.31%	4.94%	4.06%

Source: U.S. Department of Commerce, Current Industrial Reports, Series MA-24.

Area Markets: Regional statistics also show that area by area plywood accounts for the largest single product share of the panelboard market. In the USSR, 47 per cent of the panelboard sold is plywood. In Asia and the Far East, plywood's share reaches 85 per cent, and in Europe plywood producers have captured half the panelboard market. In Oceania (the Islands and Archipelagoes of the South Pacific) plywood and particleboards account for half the total market while fiberboards supply the other half.

In the United States particleboard production has expanded over the last five years at an average annual growth rate of 23 per cent. Between 1963 and 1967 particleboards increased their share of the total United States panelboard market by 6 per cent (see Exhibit A below).

Production Methods: An examination of particleboard production methods reveals a significant trend away from the extrusion process such as the one found at Domsuiza. In the United States, extruded particleboard has lost more than 50 per cent of its share of the panelboard market in the last five years. This is attributable to a lack of manufacturing flexibility and product weaknesses. Although 18 new particleboard plants are to be constructed in the United States during 1969 none of them will employ the extrusion process. Most extruded particleboard plants operating in the United States today are captives of furniture manufacturers in the South. Their product has a reputation within the United States market for being structurally weak. It normally requires cross-banding to meet minimum strength standards. Nineteen new particleboard plants were established in Latin America between 1966 and 1969. None use the extrusion process.

An examination of the particleboard industry yields two fundamental conclusions about the extrusion process: it produces a qualitatively inferior product, it has become obsolete.

The Domsuiza Project

Industrial Dominico Suiza C. por A. was originated in 1960 as the operating company for the Domsuiza veneered bagasse board plant. The plant was to have utilized sugar cane bagasse as a raw material. It was to have been processed into a panelboard, and subsequently faced with veneer. Domsuiza's planners expected that the boards, and the plant itself, through the addition of related production lines, would become an integral part of the nation's low income housing effort.

It was thought that the plant would receive more than 90 per cent of its raw materials from local sources, thus indirectly reducing the costs of sugar production by using the previously almost worthless waste. Substantial savings on foreign exchange and alleviated housing costs were also projected.

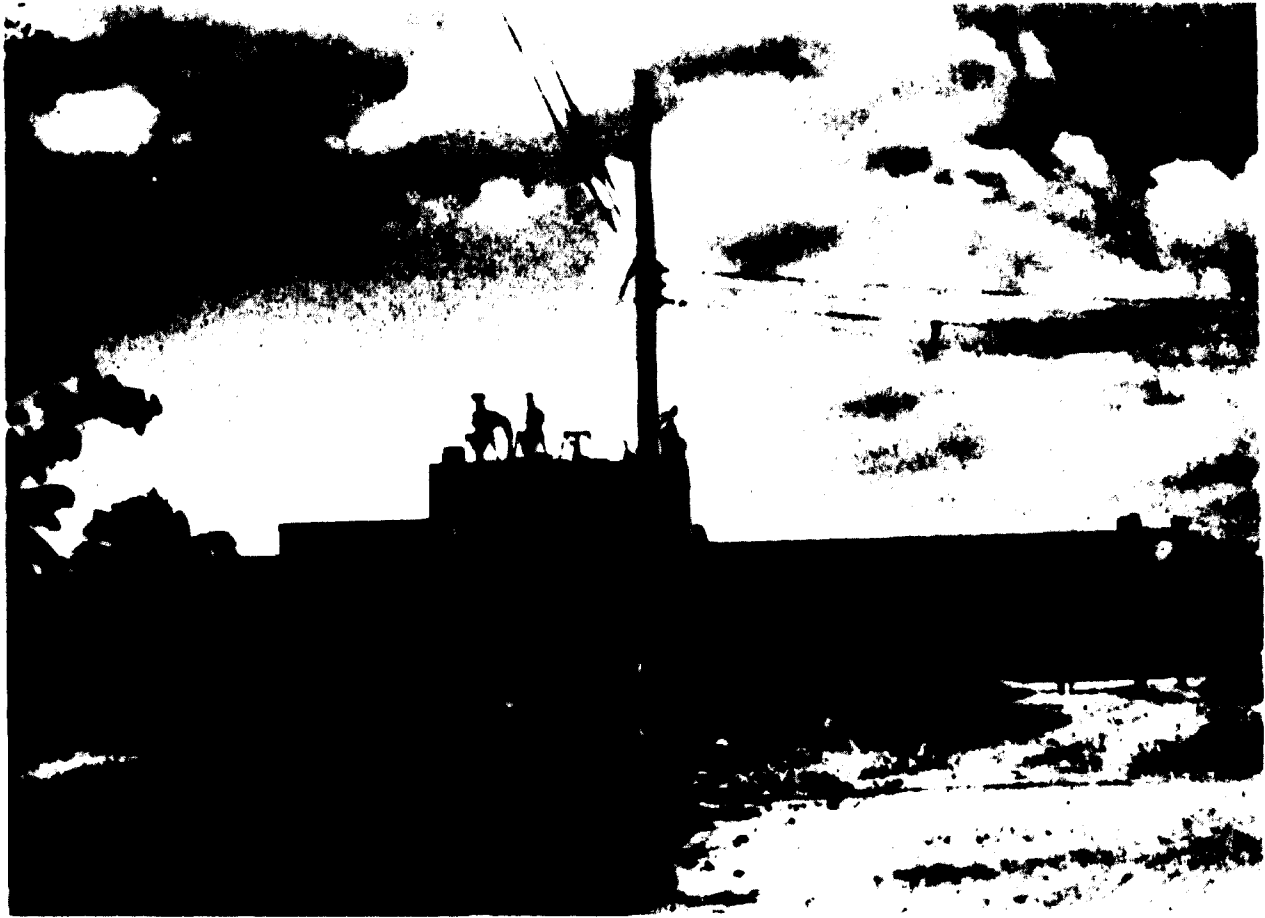
The fully engineered program for Domsuiza was never completed, and much of the equipment was never installed. A portion of the supplementary machinery was sold before shipment from Germany to satisfy import debts. Some of it was diverted to Puerto Rico where it is still in storage.

Removal of equipment, deterioration, and war damage have taken a considerable toll on the plant's physical condition. In combination with drastic rises in the cost of labor and raw materials, and the development of competitive production processes, this has completely altered the economics of production.

The authorized capital for Domsuiza was RD\$3,000,000. The operating company, combining Dominican and Swiss interests, was backed by financial institutions of both countries. Recent financial statements are contained in Exhibit D. The majority interest in the plant is owned by the Corporacion de Fomento Industrial, an agency of the Dominican Government.

The National Economy

The present government has maintained a balanced budget for the past two years. In 1967 military expenditures decreased 17 per cent and expenditures for infrastructure increased 23.5 per cent.



DOMSUIZA PLANT - FRONT VIEW
VISTA DE FRENTE DE LA FABRICA DOMSUIZA

Government revenues for the first ten months of 1968 were RD\$155,500,000, an increase of RD\$12,500,000 over the same period in 1967. A budgetary surplus is expected for 1968 due to large sugar shipments made in November and December to fulfill the recently increased United States sugar quota.

The operations of the government are being restricted by an austerity budget due to the financial condition of the country. External debt at the end of 1967 was RD\$180,000,000, and the debt service requirements will peak in 1969 when interest payments reach a maximum and when short term debt contracted by previous governments come due. External debt payments have been met scrupulously over the past few years regardless of the political and financial difficulties which have beset the country. Government authorities claim that the need for the austerity program will cease in two years. While foreign businessmen and embassy officials are optimistic about the capability of the government to service the debt on schedule, they believe that the austerity program should continue for a minimum of three years and perhaps for a fourth year as well.

Since 1964 the gross national product has hovered around the RD\$1,000,000,000 mark. In 1966 the total value of all exports was RD\$137,500,000. In 1967, this total was RD\$157,000,000. Exports in 1968 are expected to show a similar increase. In 1967 the value of exports to the United States was RD\$133,000,000. In the first half of 1968 an estimated RD\$83,000,000 of goods were exported to the United States. The principal non-agricultural export is bauxite which represents about 8 per cent of the total value of all exports.

In 1967 the total imports were estimated at RD\$172,100,000, of which RD\$98,000,000 came from the United States. In the first half of 1968 imports from the United States were estimated at RD\$57,000,000. The major imports are wheat, vegetable oils, automobiles, tractors, pharmaceuticals and construction equipment.

In 1968 the Dominican Congress passed a new industrial incentive law with the intent of stimulating foreign and domestic investment in new or existing industries. Industries manufacturing products

wholly for export will receive the greatest benefits through exemptions from all import and export duties and through tax concessions for periods up to 20 years. Other types of industries manufacturing products for local consumption will receive lesser benefits.

At the end of 1968 those responsible for the Republic's economy and finances had some reason to be pleased with the economic situation. The two year drought the country had experienced ended in the spring of 1968 and the outlook for agriculture, the nation's mainstay, was much improved. Sugar exports were up due to the increase in United States quotas. For the first time in years it may be expected that the overall balance of payments for 1968 will be favorable, taking into account receipts from the United States and other foreign loans.

The internal budget for 1968 is expected to be in balance. The significant change from 1965 is that United States aid, which was used at that time to pay salaries and keep the country afloat, has been diverted to investment projects and the government has been able to divert an increasing amount of internal resources to the same end.

The 3.6 per cent population increase per year when coupled with 30 per cent or more unemployment represent severe economic strains as well as political dangers. The C. I. A. P. (Inter-American Committee of the Alliance for Progress) estimates the Gross National Product growth for 1968 to be 3.5 per cent, approximately the same as the population growth. Unofficial estimates, which are considered reliable, put the Gross National Product increment much lower, i.e. between 2.1 per cent and 2.6 per cent. This indicates that per capita income is deteriorating.

Well reasoned forecasts of the future growth pattern of the Republic's economy or specific sectors thereof are exceedingly difficult to obtain. The December 1968 U. S. Department of Commerce report comments "... the Dominican Republic's per capita Gross National Product growth rate in the medium and long term should reach and surpass the minimum of 2.5 per cent established by the Alliance for Progress."

Exhibit B shows the projected structure of government expenditures by sector in 1970 and 1985. It shows two items of interest to this report: a total expenditure of RD\$1082.5 million in 1985 compared to a total expenditure of RD\$340.3 million in 1970, representing a gain of RD\$742.2 million in 15 years.

These figures indicate a projected annual growth rate of governmental expenditures of $7\frac{1}{2}$ per cent per year in the Republic. Although this economic growth rate might be achieved for a short period of time, it is unlikely that it could be sustained for any protracted period. For projecting market demand and consumption of cellular based panels, 5 per cent is a more likely upper limit for estimated annual growth.

Investment Climate

National projections indicate an annual investment requirement (either foreign or domestic) of RD\$80,000,000 a year.

Foreign investments have usually vacillated in response to political conditions and estimates of national stability. They declined sharply during the civil war in 1965, and the country has only partially recovered its allure for the foreign investor. Today, foreign capital will not flow into the Republic as readily as desired. As time passes, however, this reluctance diminishes; it has diminished appreciably in the past year. Nonetheless, foreign investors can be relied upon to take a most penetrating look at any new investment proposal.

The Dominican government has actively expressed its desire for foreign investment. This interest is clearly stated in Law No. 292 (June 1968) relating to companies that promote economic development and Law No. 299 (April 1968) for industrial protection and incentive.

Domestic investments, according to most reliable sources, are not being generated rapidly enough. Most foreign observers feel that Dominicans are somewhat delinquent in investing in their own internal commercial activities. Sources within the Republic confirm this, but apparently the situation is improving. It is still impossible to tell when a normal internal investment level will be reached, but Dominican businessmen and investment organizations are reported to be making progress.

**For Domsuiza, this investment climate has serious implications.
The facts that,**

The plant was never really completed

It has been largely idle for many years

It has seriously deteriorated

The entire operation is heavily burdened with debt

all militate against investment in Domsuiza.

Sources of investment contacted were:

**First National City Bank.
Financiera Dominicana, S. A.
Banco de Bogota, Colombia.
French American Banking Corporation.
Banco Inmobiliario Guatemala.
Banco Central da Reserva de Peru.
Bank of Montreal Canada.
Chase Manhattan Bank.
Banco Popular de Puerto Rico.
Banco Comercio e Industria Rio de Janeiro.
U. S. A. I. D.**

Although some of these potential investors expressed a non-specific interest in the Dominican Republic, there is little doubt that the present investment climate of insecurity and doubt, in combination with Domsuiza's present insolvency, preclude the chance of attracting the capital necessary to rehabilitate the plant.

Exhibit B

Projected Structure of Government Expenditures by Sector, 1970 and 1985

	1970		1985	
	RD\$ (Millions)	Percent of total	RD\$ (Millions)	Percent of total
I. Development of Human Resources	RD\$125.9	37.0	RD\$ 476.3	44.0
1. Education	42.9	12.6	163.5	15.1
2. Sanitation	40.1	11.8	154.8	14.3
3. Social security and welfare	12.6	3.7	43.3	4.0
4. Community services	15.0	4.4	51.9	4.8
5. Housing	15.3	4.5	62.8	5.8
II. Infrastructure Development	37.4	11.0	86.6	8.0
1. Transportation and storage	32.6	9.6	65.0	6.0
2. Communications	4.8	1.4	21.6	7.0
3. Power	--	--	--	--
III. Development of Production	46.0	13.5	129.9	12.0
1. Agriculture	36.5	10.8	81.2	7.5
2. Industry, mining, and commerce	9.1	2.7	48.7	4.5
3. Other services	0.4	--	--	--
IV. General Government Services	115.7	34.0	324.7	30.0
1. General administration	48.7	14.3	133.1	12.3
2. Defense	40.2	11.8	111.5	10.3
3. Interior and police	19.2	5.6	55.2	5.1
4. Justice	5.1	1.5	16.2	1.5
5. Foreign affairs ¹	2.7	0.8	8.7	0.8
V. Financial Service	15.3	4.5	65.0	6.0
Total (I, II, III, IV, V)	RD\$340.3	100.0	RD\$1,082.5	100.0

¹ Mainly public debt.

Source: Plataforma para el Desarrollo Economico y Social de la Republica Dominicana

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DETERIORATION AND BATTLE DAMAGE
DETERIORO Y DAÑO DE BATALLA

PRODUCTION

Domsuiza Products

If restored and completed, the Domsuiza plant would be capable of producing these basic products:

Bagasse particleboard
Veneered bagasse board
Veneer and plywood
Miscellaneous products

Bagasse particleboard at Domsuiza is produced by an extrusion press which, because of its design (this is discussed in more detail later in this report) does not produce a usable particleboard unless it is overlaid by other material. This material was to have been veneer.

The plant's bagasse particleboard equipment was set up for producing 1 1/16", 4' x 8' board in the density range of 25 to 35 pounds per cubic foot. The boards are light grey in color, very low in strength, and high in water absorption characteristics. Since it is a homogenous particleboard (that is, without a concentration of finer fibers on the surface of the board), both sides are relatively rough with coarse particles in the finish. This is the least desirable of all particleboards.

Veneered bagasse board is produced by facing each side of the bagasse particleboard with a thin wood veneer. This adds considerably to the manufacturing cost but does render the panel usable and more attractive. The veneered bagasse board panels are as strong as competitive unveneered particleboards. Ordinarily a 1/20" veneer is used on both sides of the panel, and this reduces the board's water absorptive tendency. Even then, however, care must be taken not to expose the soft, low density edges of the boards to moisture.

Veneer and plywood of conventional grades can be produced if Domsuiza is restored and completed. Both of these products would be of the conventional type. Veneer is produced by turning a log in a large lathe and as it turns by peeling off a thin sheet of the veneer. Once dried, the veneer would be a suitable Domsuiza product and could be sold as raw material for other finishing plants. Ordinarily, veneer is sold in 4' x 8' panels of 1/20" to 1/8" in thickness. Plywood, a cross grained assembly of veneer layers, is usually sold in the same 4' x 8' panels at thicknesses from 3/16" to 3/4".

Miscellaneous products are the moulded goods which the plant was to produce, and the goods produced by the cut up operation (prefabricated houses, furniture, shelves, etc.) These are manufactured products, covered in the Marketing section of this report. Most of the orders for moulding equipment were cancelled. It is probably fortunate that Domsuiza did not make the expenditures needed to produce these complex products.

Raw Materials

Bagasse is produced in large quantities as a by-product of the sugar industry. Although it is commonly held that bagasse offers an economic raw material for use in the manufacture of particleboard, this is not the case within the Dominican Republic. Competitive particleboard manufacturers in the United States and in other countries pay much less for their basic raw material. An examination of some of the factors underlying the high price of Dominican Republic bagasse follows:

Plant location for most competitors is either adjacent to or very near the source of raw material supply. For example, U. S. particleboard plants which use wood chips are normally located near a saw mill or next to a furniture factory. In such cases transportation cost for the raw material is small. By comparison, Domsuiza has been located far from the sources of bagasse - 140 miles from Barahona and 10 miles from Ozama - and the transportation cost is high. Adding to this cost is the waste material that is carried along with the bagasse to Domsuiza. Pith and fines should be

separated at the mills and burned as boiler fuel; instead they are transported the entire distance to Domsuiza where they must then be removed and disposed of. By weight nearly 40 per cent to 50 per cent of the bagasse raw material is waste. This nearly doubles the transportation cost for the usable material.

The price for raw bagasse is RD\$15 per ton f.o.b. Domsuiza. Removal of the pith and fines raises the cost for usable raw materials to about RD\$25 to RD\$30 per ton. This is an exceptionally expensive raw material for manufacture of particleboard. As far as is known no particleboard plant in existence is paying such a high price for their basic raw material. Domsuiza's cost is three times the RD\$10 per ton cost of bagasse supplied to a large, modern Caribbean competitor.

Raw material cost for particleboard manufacture is dependent on alternative uses for the raw material. At many wood particleboard plants raw material is purchased at a cost of from RD\$5 to RD\$15 per ton, mainly because there are no other attractive uses for the waste wood. On the other hand, the bagasse which Domsuiza uses is also used for boiler fuel at the sugar refineries and oil must be imported and substituted as a fuel to replace the bagasse diverted to Domsuiza. Oil is not a cheap substitute within the Dominican Republic and conversion to oil burning equipment is costly.

The seasonal nature of the sugar industry requires a large stockpiling of bagasse. During the six months when bagasse is available Domsuiza must purchase a 12-month supply to assure continuous manufacturing operations. This ties up working capital. The working capital required to finance this bagasse inventory would vary from about RD\$15,000 at the beginning of the sugar producing season to a high of RD\$90,000 in the period immediately preceding the end of the season.

Summarizing, basic raw material availability and cost are crucial factors in determining the potential viability of companies competing

for the particleboard market. Because of the high cost of raw bagasse, Domsuiza faces a significant competitive disadvantage in the world market. In brief the reasons contributing to the high cost are:

Plant location is not close to the source of raw material.

Waste material amounting to almost 50 per cent by weight is purchased.

Bagasse has value as a boiler fuel at the sugar mills.

Oil must be imported as a substitute fuel for bagasse.

Conversion to oil burners is costly.

Large bagasse inventories are required because it is not available during certain seasons.

Imported Raw Materials: Among the original assumptions underlying the Domsuiza venture was the belief that this venture would take advantage of indigenous raw materials, reduce imports, and save foreign exchange. It was thought that 80 per cent or more of the material required for production would be local. By volume or weight this is true: more than 80 per cent of the product is comprised of fibrous bagasse. However, considering the total cost of raw materials required for production, this is a misleading statement. More than 80 per cent of the raw material cost comes from imported raw materials. Operating Domsuiza will neither reduce imports significantly, nor will it produce considerable foreign exchange savings.

For all the marketable products of the plant, logs must be imported for processing into veneer. When the Domsuiza venture was in the formative stages some logs were available locally. Since then some depletion of local timber reserves has resulted in governmental regulations forbidding logging.

A survey of the various South and Central American countries exporting logs indicated that Cativo from

Colombia would be the best species to import for Domsuiza's purposes. It is one of the few species of South American logs profitably being imported into the United States for veneering. Among the companies using it are the Pascagoula Veneer Company of Pascagoula, Mississippi and the Bacon McMillan Company of Stockton, Alabama. Cativo is a semi-hard wood, among the least expensive of veneering logs, and it is abundant in supply. Cativo delivered to Domsuiza would be RD\$120 per 1,000 board feet (Doyle Scale), including approximately RD\$45 freight.

It must be noted that South and Central American countries show an increasing tendency to restrict exports. These governments feel that indigenous industry should be developed with local raw materials, and in many areas have even banned log exports. Ecuador, Nicaragua, and recently Brazil are among countries prohibiting log exports and if Colombia also were to embargo log exports the cost of raw materials for Domsuiza would take a significant turn upward.

Other imported raw materials necessary for producing veneered bagasse board include resin, for the bonding of the bagasse fibers, hardener, for setting the internal bond; wax, to increase moisture resistance and surface smoothness; pentachlorophenol, a necessary additive for termite protection; and phenol resin glue, for gluing on the veneer facing. Annual raw material requirements are shown in the following table:

**Annual Domsuiza Raw Material Requirements
Veneered Bagasse Board**

<u>Raw Material</u>	<u>Quantity per Day</u>	<u>Unit Price</u>	<u>Full Capacity Annual Cost (250 Days)</u>	<u>Percentage of Total</u>
Bagasse (local)	48 tons	RD\$15/metric tons	RD\$180,000	19.4%
Resin (import)	6,300 lb	.10/lb @ 60% solids	325,500	35.0
Hardener (import)	630 lb	.16/lb	25,250	2.7
Wax (import)	1,260 lb	.10/lb	31,500	3.4
Pentachlorophenol (import)	630 lb	.40/lb	63,000	6.8
Logs (import)	7,600 bd. ft	RD\$120/1,000 bd. ft	228,000	24.5
Phenol Resin Glue (import)	76,000 ft ²	RD\$4/1,000 ft ²	76,000	9.2
<u>Total</u>			<u>RD\$929,250</u>	<u>100.0%</u>

It is evident from the foregoing tabulation that imported raw materials dominate the total raw material costs required for producing veneered bagasse board. The annual requirement for raw materials is RD\$929,250 of which locally procured bagasse represents only RD\$180,000. Imported materials are 80 per cent of the total raw material cost. Indirectly, this imported cost is even greater since oil must be brought in to replace the bagasse as fuel at the sugar mills.

Plywood and Veneer production lines at Domsuiza also depend on imported raw materials. In both of these cases 100 per cent of the raw material requirements of logs and phenol resin glue are imported. In all cases in calculations of production costs, import

duties on the raw materials were not included since for the operation to be viable would require development of a substantial export market; and under the industrial incentive laws imported materials which will be used for export products are duty exempt.

Manufacturing Operations

The following process description is based on the Plant Flow Diagram (which is included with pertinent site, plant, and machinery layout drawings as Exhibit C) and has incorporated minor changes that are advisable. Material balance and process capacities are included on the Flow Diagram. Detailed descriptions of each machine are given in the equipment inventory, and for the sake of clarity, machines will be referred to using general terminology (i. e. hammermill).

Briquetting is the first step in the Domsuiza process and is done at the sugar mills. In the briquetting plant the fibrous raw bagasse is milled, dried and then compressed into briquettes for transportation to Domsuiza. Briquettes are about 3" in diameter and from 1/8" to 3" in length. Piled in loose bulk storage briquettes weigh 32 pounds per foot³. Two similar briquetting plants have been installed: one at the Ozama sugar mill and one at the Barahona sugar mill. A schematic layout of these plants is also included in Exhibit C.

At the beginning of the briquetting process the raw bagasse is at approximately 100 per cent moisture content (calculated on dry basis, one-half bagasse and one-half water) and consists of chopped up pieces of material similar to corn stalks, about one to four inches long. The raw bagasse is diverted from the overhead conveyor that feeds the boilers and is fed by means of a chute to a hammermill which reduces it to a more uniform size of approximately 1/2" maximum length. Next it is conveyed by air through a fan to a cyclone. The air is discharged from the top of the cyclone; the bagasse is discharged through the bottom and introduced into a pipe line of hot air. This air is heated by an oil burner, and with the bagasse, is fed into a large fan. The fan

discharges the hot air and bagasse mixture into a large vertical standpipe and then into another large cyclone. This sequence of steps acts as a flash drying process and reduces the moisture content from approximately 100 per cent dry basis to 10-15 per cent. The hot gasses and steam are discharged from the top of the cyclone and the bagasse is passed out the bottom into a briquette feeder. The feeder has adjustable speeds and drops the bagasse directly into the briquette machine where it is then compressed into briquettes. The briquetted bagasse is piled on the floor ready to be loaded for transportation to Domsuiza.

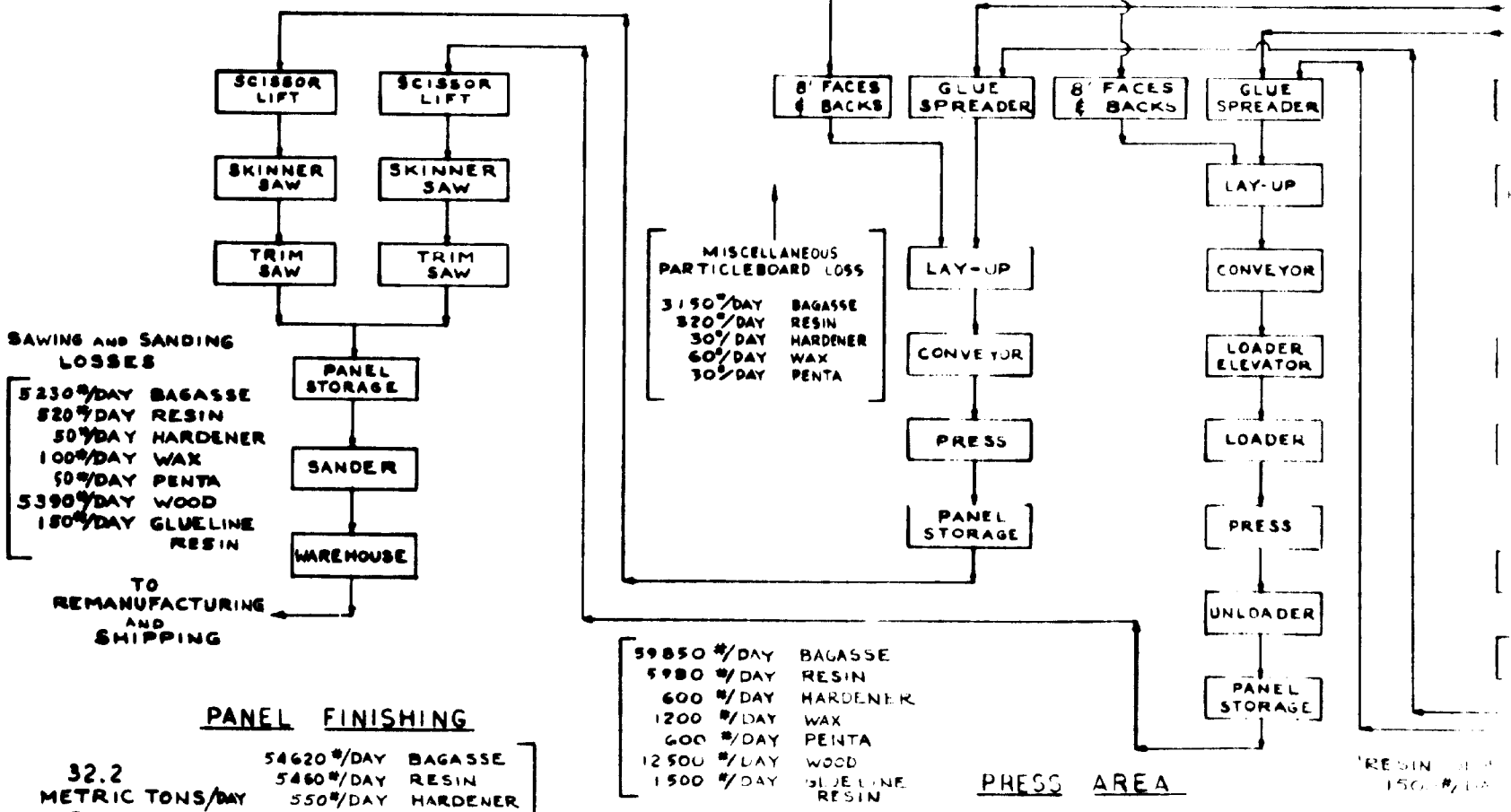
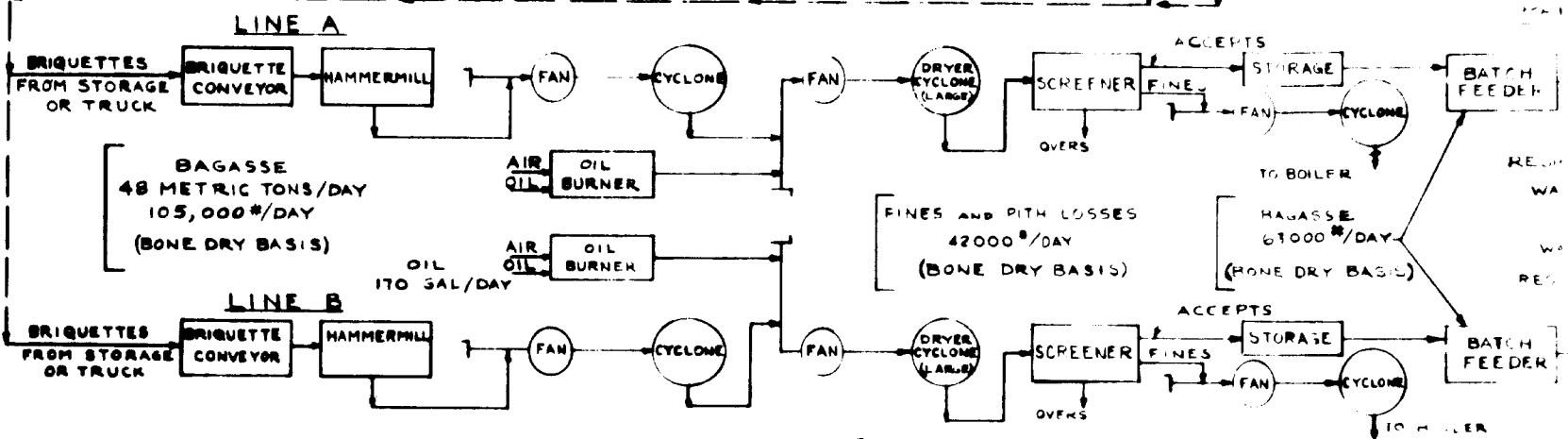
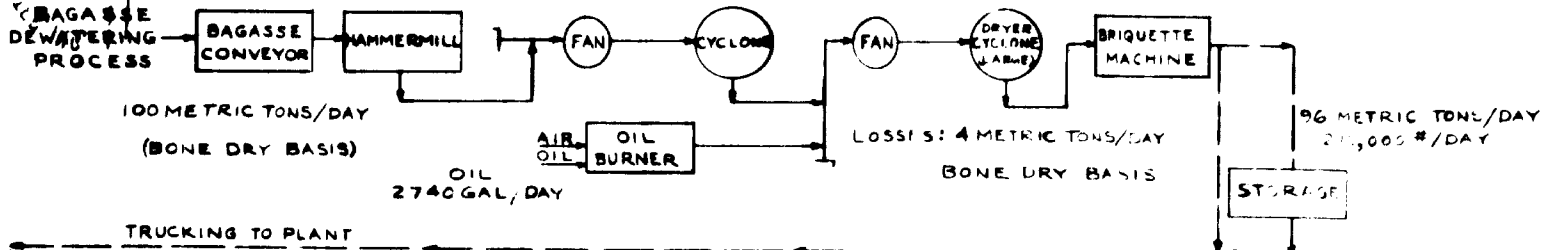
The briquetter at Ozama has a single head and is reportedly capable of producing about 20 tons per 24 hours of operation. The briquetter at Barahona has a double head and it has been reported that it will briquette as much as 40 tons per 24 hours. Since the sugar mills operate on the average for only six months per year it is necessary to briquette enough bagasse during this season for 12 months operations at Domsuiza. One out of every two truck loads of bagasse that are taken from the sugar mill must be stored. As developed later in the Economics section of this report 48 tons (dry basis) bagasse fiber are required per day to produce 30 tons of bagasse particleboard. Since half of the bagasse must be stored, the required production of bagasse briquettes is 96 tons per day during the sugar milling season. Total present capacity of the briquetting plants is only 60 tons per day.

Particleboard Extrusion: In the Flow Diagram (Exhibit C) production lines A and B are shown representing the manufacturing process for bagasse particleboard. These lines are identical. At one time it was intended to set up a third line, however, since there were only a few items of equipment delivered for this additional line, the equipment was held as spares for lines A and B.

The first phases of the production steps at Domsuiza are similar to the steps taken in the briquetting plants. That is, the briquetted bagasse is milled and the moisture

WORLD
FIELD
NO. 10
1950

BRIQUETTING



59850 #/DAY BAGASSE
5980 #/DAY RESIN
600 #/DAY HARDENER
1200 #/DAY WAX
600 #/DAY PENTA
12500 #/DAY WOOD
1500 #/DAY GLUELINE RESIN

32.2 METRIC TONS/DAY PRODUCTION

54620 #/DAY BAGASSE
5460 #/DAY RESIN
550 #/DAY HARDENER
1100 #/DAY WAX
550 #/DAY PENTA
7110 #/DAY WOOD
1350 #/DAY GLUELINE RESIN

SECTION 1

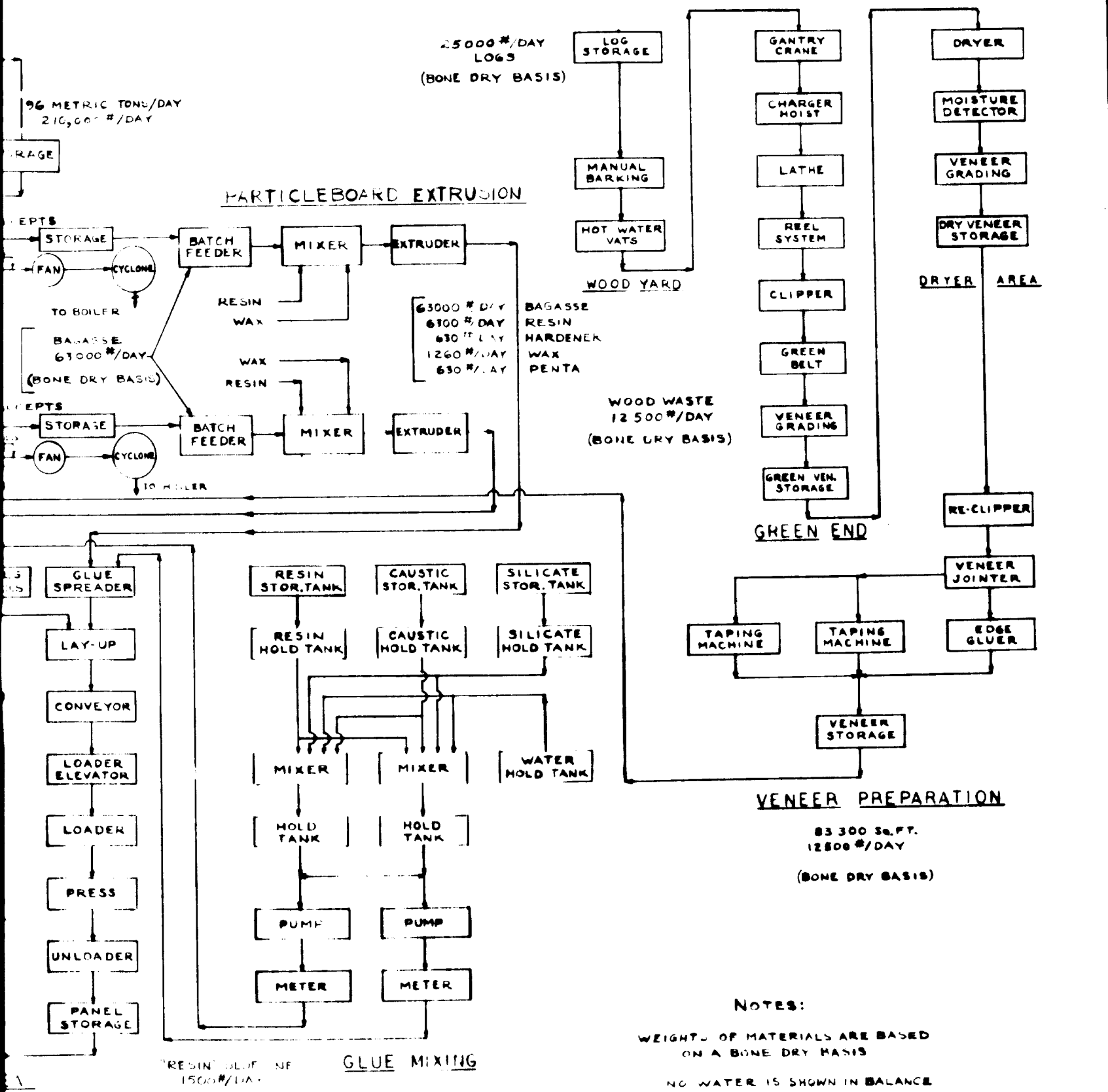
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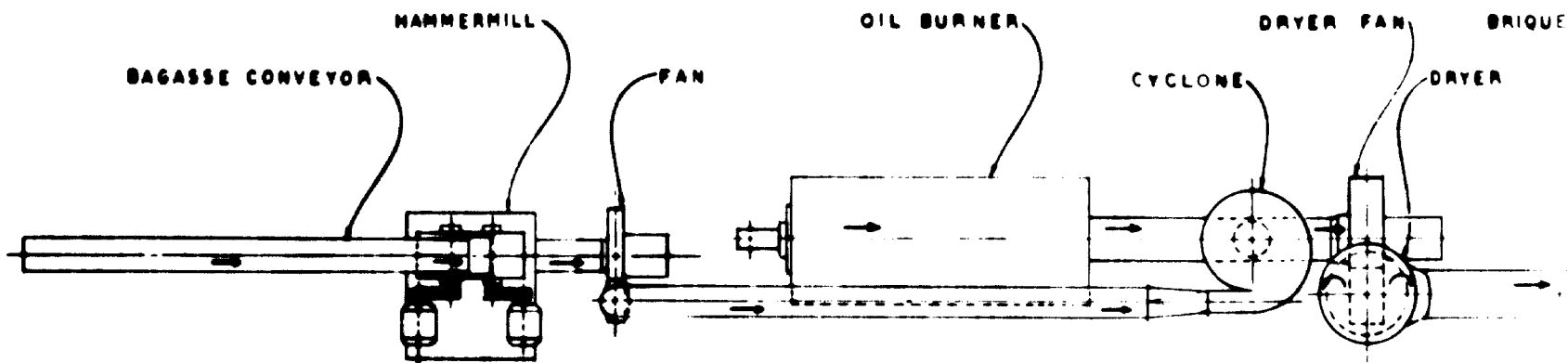
Exhibit C

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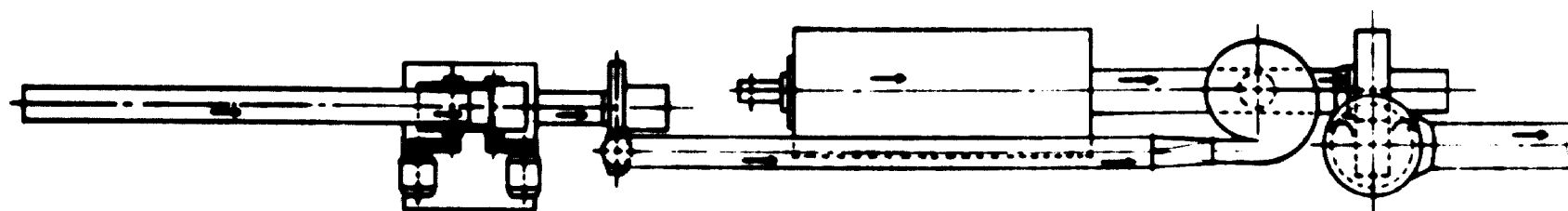


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SECTION 2



BRIQUETTE LINE AT BARAHONA

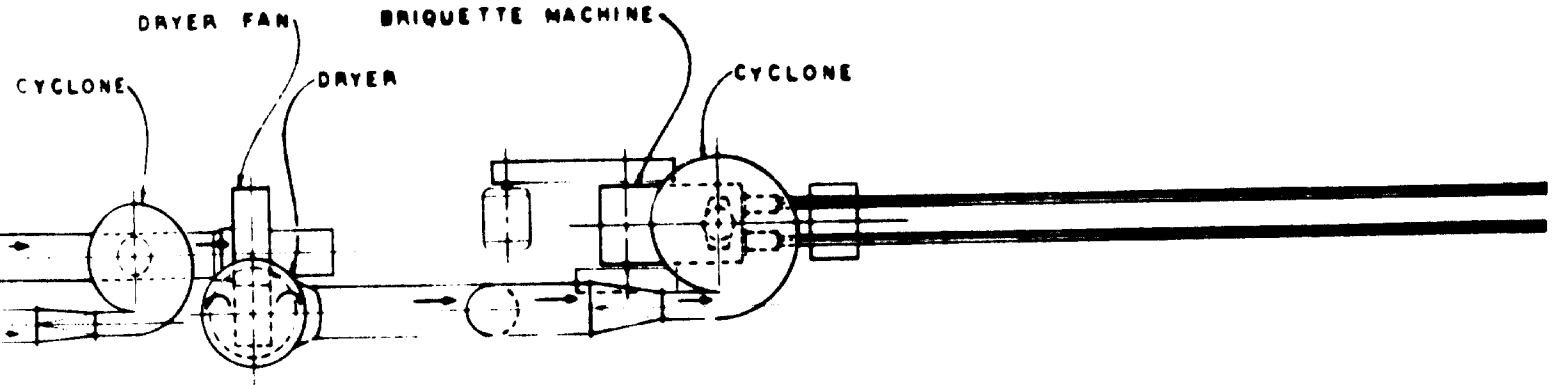


BRIQUETTE LINE AT OZAMA

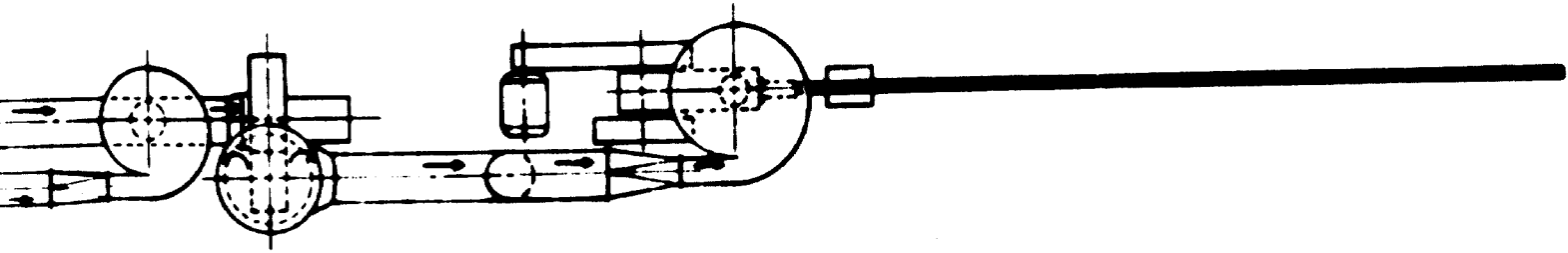
SECTION 1

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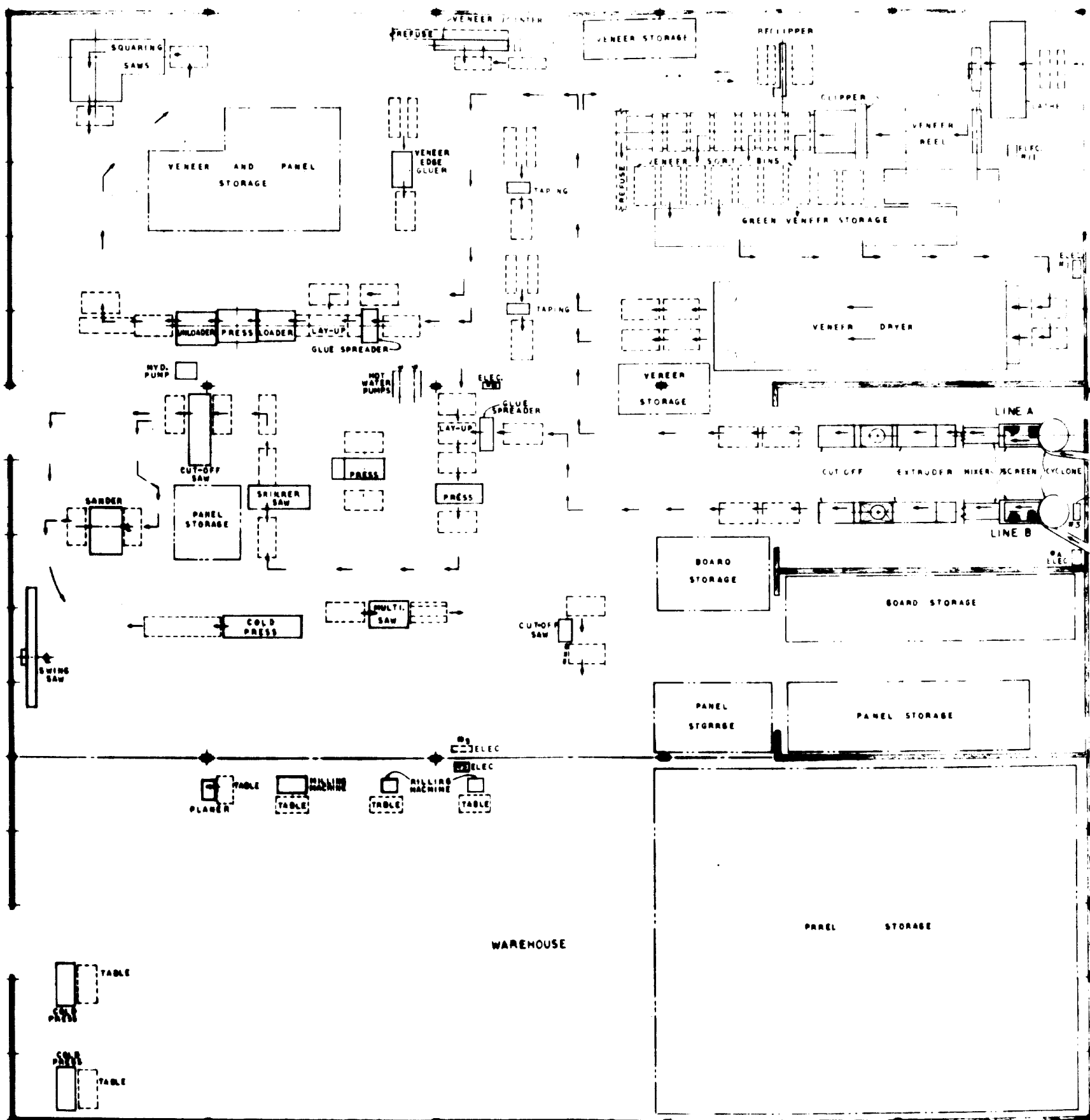
LINE AT BARAHONA



LINE AT OZAMA

SECTION 2

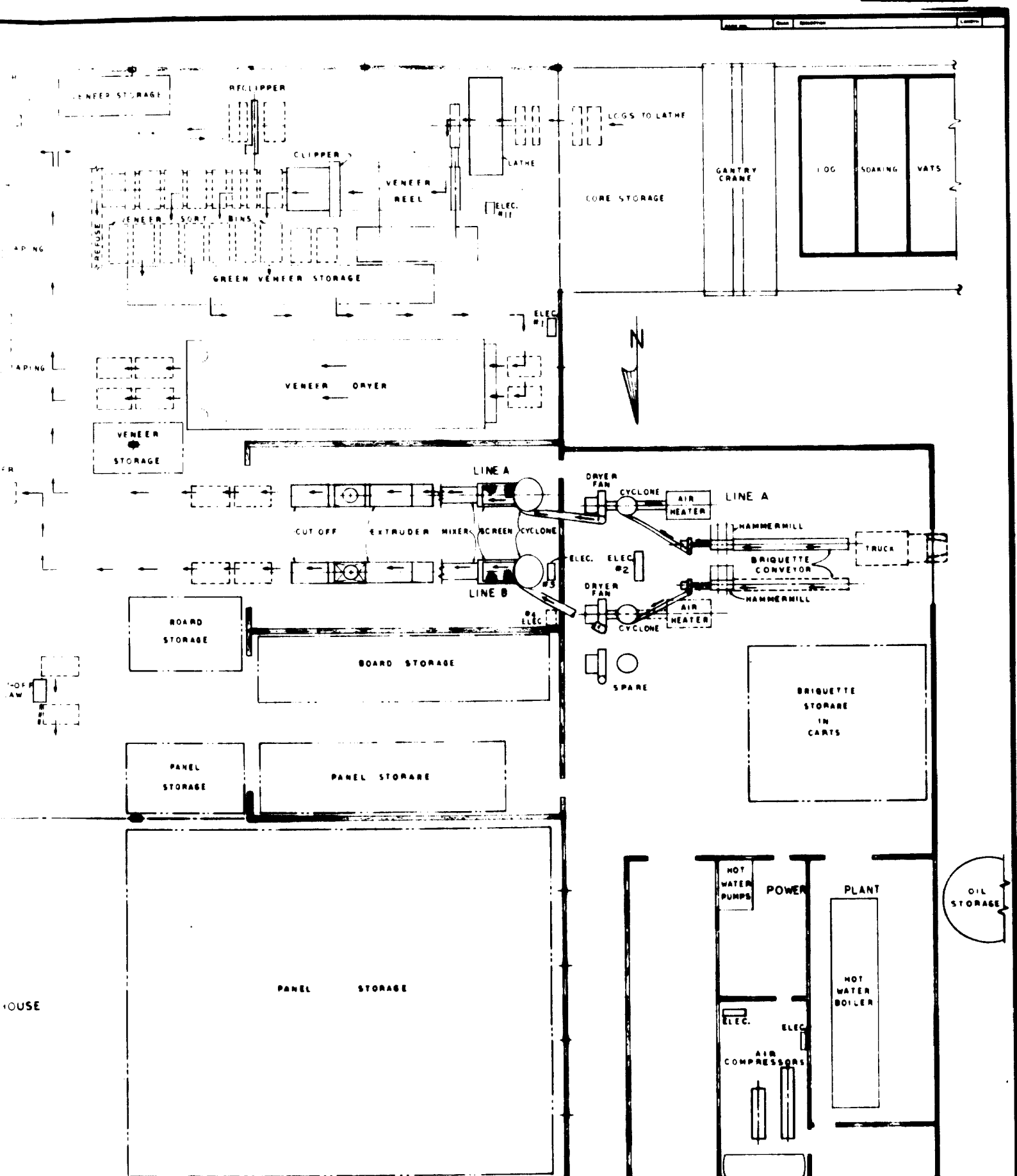
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		BY F.C.F.	SCALE: NONE		SCHEMATIC LAYOUT OF BRIQUETTING PLANTS	D-0000-376 1 OF 1
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NOTES:
 1. MISSING EQUIPMENT REQUIRED FOR THE PROCESSES IS SHOWN BY DASHED LINES ON THE LAYOUT. FOR DETAILED INFORMATION SEE INVENTORY SHEET.
 2. BOARDS AND VENEER REQUIRED TO SHOW MATERIAL FLOW THROUGH THE PLANT ARE SHOWN BY DASHED LINES ALSO.

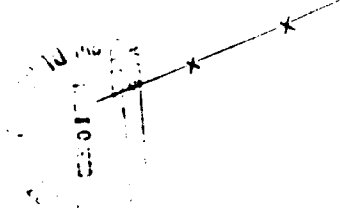
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							527-7	
							527-8	
							527-9	
							527-10	

SECTION 2



PROVISION FOR EXPANSION

PANEL MANUFACTURING VENEER

ADDITIONAL BRIQUETTE STORAGE

ROADWAY

FABRICATION AREA

WAREHOUSE

ROADWAY

WAREHOUSE

← MAIN GATE

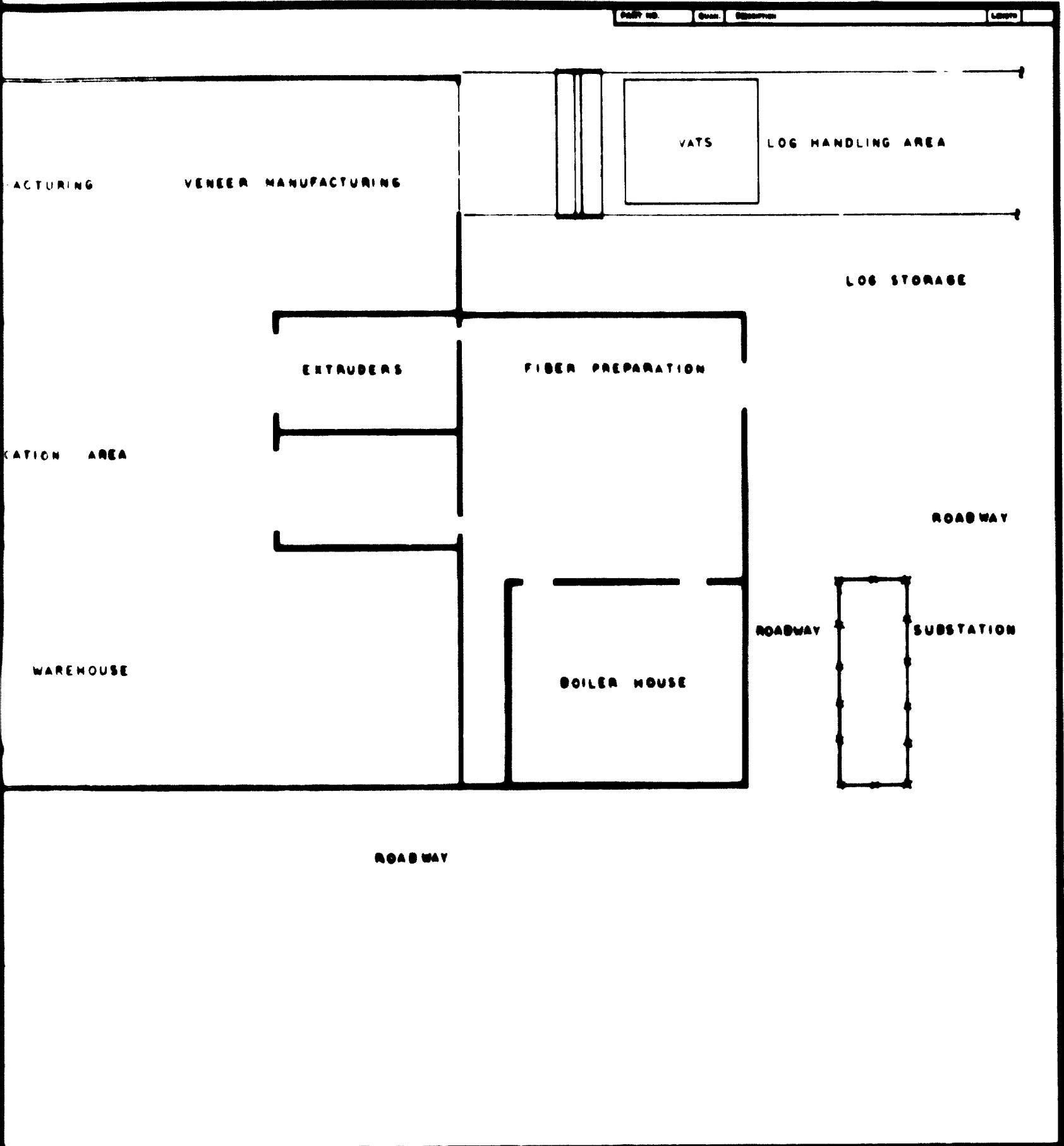
OFFICE AREA

ROADWAY

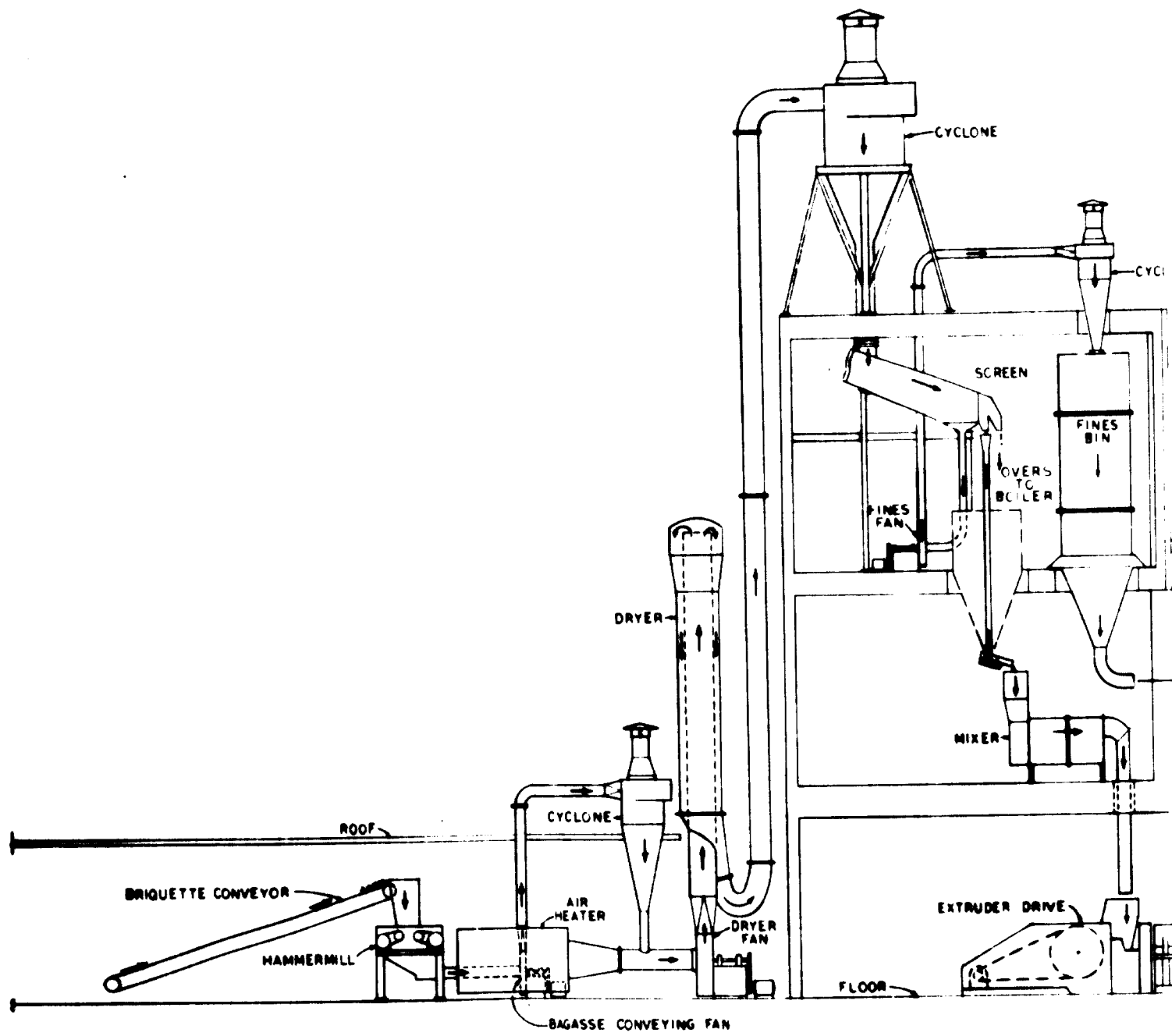
BRIQUETTE STORAGE MACHINE SHOP

SECTION 1

NO	DATE	REVISION

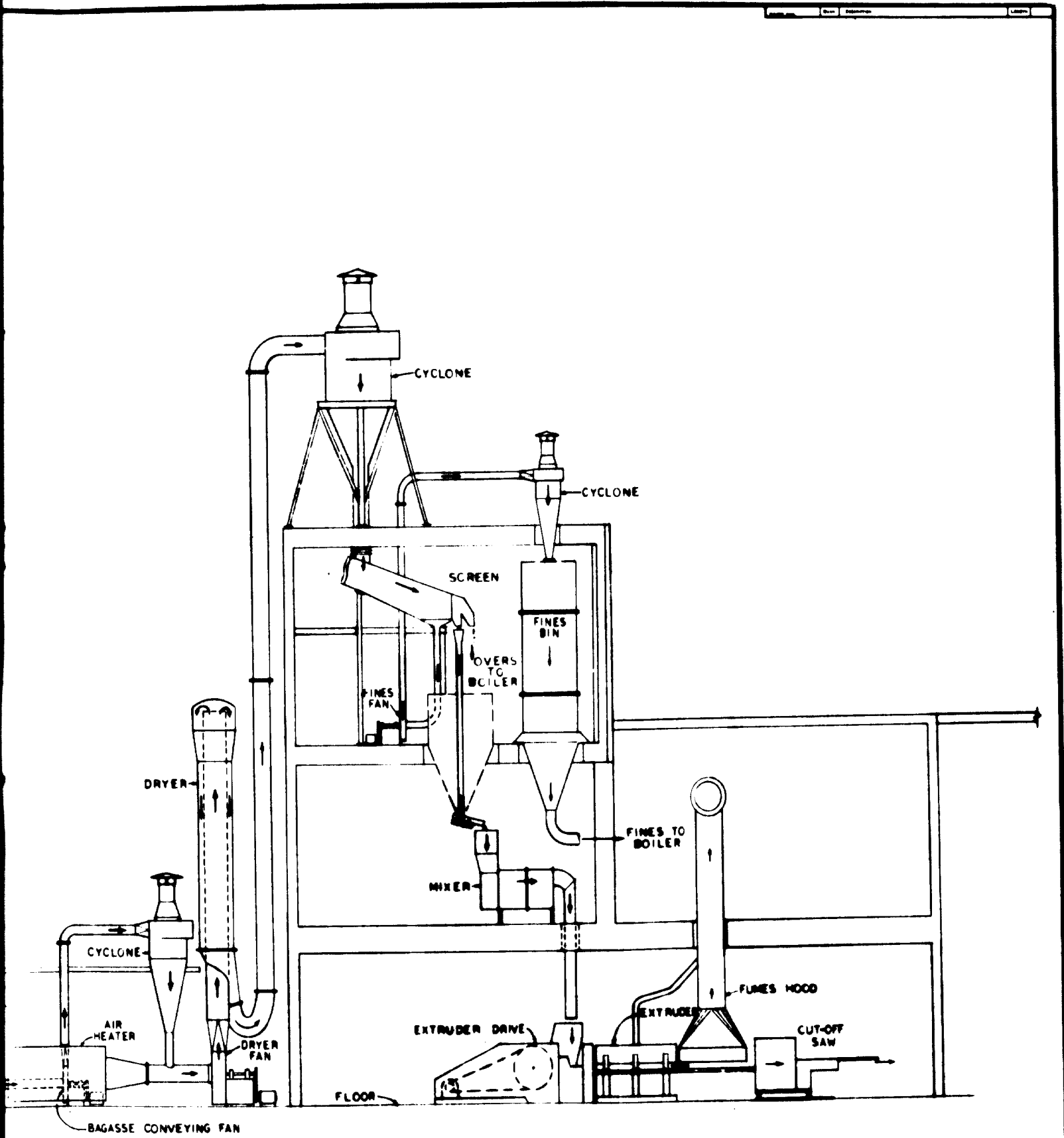


DATE		REVISION		BY		527		R.C.F. 2-13-64		INTERNATIONAL DESIGN CORP. 2000 SOUTH FINE TACOMA, WASHINGTON		SHEET NO. _____ OF _____ PROJECT NO. _____ P			
SCALE: 1/8" = 1'										BAGASSE BOARD PLANT SITE LAYOUT				DRAWING NO. D-0000-377 SHEET NO. _____ OF _____	



SECTION 1

NO.	DATE	REVISION	BY



		227		P.C.F. 2-74-60		INTERNATIONAL DESIGN COOP.	
		P.C.F. 2-74-60		P.C.F. 2-74-60		DOM SUIZA	
		P.C.F. 2-74-60		P.C.F. 2-74-60		BAGASSE BOARD	
		P.C.F. 2-74-60		P.C.F. 2-74-60		MACHINERY LAYOUT	
		P.C.F. 2-74-60		P.C.F. 2-74-60		E-0000-374	
		P.C.F. 2-74-60		P.C.F. 2-74-60		P	
		P.C.F. 2-74-60		P.C.F. 2-74-60		SCALE 2 CM = 1 FT.	

SECTION 2

content is reduced. Briquettes from the sugar mill or the storage area are trucked to the head of the line and fed onto the briquette conveyor by hand. This conveyor feeds the hammermill which further reduces the bagasse in size and at the same time is supposed to transform the pith into very small fractions. The small pith fractions and the bagasse are conveyed by air through a fan to a cyclone. The air is then discharged from the top of the cyclone while the bagasse is discharged through the bottom into a pipeline of hot air. This air is heated by an oil burner, and blows the bagasse into a large fan. This fan discharges the hot air and bagasse mixture into a large vertical standpipe and then into another large cyclone. Again, this sequence of steps acts as a flash drying process, reducing the moisture content from approximately 15 per cent (dry basis) to 3-4 per cent. The hot gasses and steam are discharged from the top of the cyclone while the bagasse and pith are discharged from beneath onto a double deck vibrating screener. The pith fraction (and a small amount of the bagasse fiber) is sifted through both screens and is conveyed by fan and air ducts to a cyclone and into the boiler fuel storage bin. Large particles, or overs, are discharged onto the floor from the top of the first screen and are subsequently discarded. Acceptable bagasse fiber is discharged from between the two screens, by means of a chute and is stored in a cone bottom storage bin. A vibrator under the cone storage bin conveys the bagasse to a batch feeder that rations it into a paddle mixer. Approximately 8 to 10 per cent by weight of urea resins is introduced here along with 1-1/2 to 2 per cent petroleum wax. This mixture or "furnish" as it is called is fed to the extruder by means of a metering feeder.

The extruded bagasse board is produced by an oscillating ram, which forces the resin coated bagasse and resin mixture between two large parallel hot plates. For producing 3/4" board, these parallel hot plates are separated by a 3/4" space. The oscillating ram is also approximately 3/4" thick and about the same

APPENDIX

	<u>Sheet Number</u>
I EQUIPMENT INVENTORY AND EVALUATION	
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width as the board and hot plates, i.e. 48". At each stroke of the ram a charge of bagasse and resin mixture is forced into the pressing compartment between the hot plates. The ram compresses it horizontally against the previous charge. Each stroke of the ram advances the continuously formed 4' wide board through the hot plates by 1/4". An automatic flying saw cuts the board into 8' nominal lengths as it emerges from the hot plates.

The 4' x 8' bagasse board is thus formed by joining a series of compressed layers each 1/4" thick, 3/4" high and 48" across. Herein lies the reason the extrusion method never met with a great deal of success. The extruded board has lines of demarcation every 1/4" throughout its length, and for all practical purposes has little structural strength. With even the slightest stress in handling, the boards will break along these demarcation lines. As such, the panels have little potential sales value and before they can be marketed or even shipped, veneer must be added to both sides for strength. The description of veneering this board follows.

Veneered Bagasse Board: After being cut to lengths the 4' x 8' sheets of bagasse particleboard are transported by a lift truck to the press area. Here the bagasse particleboard is fed into a glue spreader which applies a film of phenol resin glue on both sides. As soon as it emerges from the glue spreader, a thin sheet of wood veneer is applied to each face of the bagasse particleboard core.

The glue is prepared by mixing its various ingredients and pumping it through metering valves to the glue spreader.

The assembly of "face and back veneers on the two glued surfaces of the bagasse particleboard core" is called a layup. Eight layups are stacked together for charging one hot press load (eight openings).

The layups are cured in the hot press at a temperature of approximately 300 degrees F and the cured product

is called veneered bagasse board. After being removed from the press, the veneered bagasse board is allowed to cool before the rough edges are squared off in the skinner and trim saws. If a defect shows up, these may be repaired at this stage by means of sliver patches. The panel is now fed into a drum sander to give it a smooth surface. This sander is of the flat bed type and sands only one side at a time. Therefore, each panel must be fed through the sander twice. After sanding the panels are warehoused and eventually shipped or remanufactured.

Veneer and Plywood: The Flow Diagram starting in the upper right hand corner illustrates the veneering system. If this section of the plant is operated it will be necessary to import logs and they will have to be trucked from the dock to the Domsuiza plant. They should be stored in the crane area of the plant. However, additional space will also be needed. Since no debarking machine has been purchased or installed it is assumed that the intent was to do needed debarking by hand. Debarking equipment would be more satisfactory.

Log vats have been installed to steam or soak the logs in very hot water prior to the lathe operation. The logs are then hoisted from the vats by the gantry crane and placed in front of the lathe. A lathe charger or hoist should be installed to charge the lathe with the logs. The lathe is set up to turn a 3-1/2' diameter log over eight feet in length. After the log is on the lathe and as it turns, the lathe knives peel off a thin sheet of veneer, which is rolled onto reels. This section of the plant is designed for two reeling systems, side by side, however, only one system has been installed. At the end of the reeling section a clipper is used for clipping the veneer into desired widths.

As the veneer is conveyed from the clipper on the green chain belt it is graded manually. The various grades are temporarily stored and subsequently fed by hand into the veneer dryer. The dryer is a double deck jet type dryer approximately 60' long. When the veneer

emerges from the dryer it is checked for proper moisture content and then regraded. Sheets that are less than four feet wide are squared up on the veneer jointer and then edge glued or taped into four foot widths. If the veneer is going to be marketed directly no further processing (except banding) is required. A description of the veneering process used to add the face and back over a core board is included in the preceding section - Veneered Bagasse Board. The section of the plant where the bagasse particleboard cores are veneered would also be used for the glue spreading, layup, pressing, trimming, and sanding operations required to produce plywood. Instead of using a single thick core with two face veneers such as with veneered bagasse board, plywood requires three center sheets of veneer (a core and two cross bands) and two face veneers. This requires a total of five plies with four glue lines for a finished thickness of 3/4". Sometimes a panel of this thickness is built up of seven plies of thinner veneer requiring six glue lines.

Any remanufacturing to be done would be performed on power saws, routers, and jointers - all of which would be operated by hand.

Equipment Testing

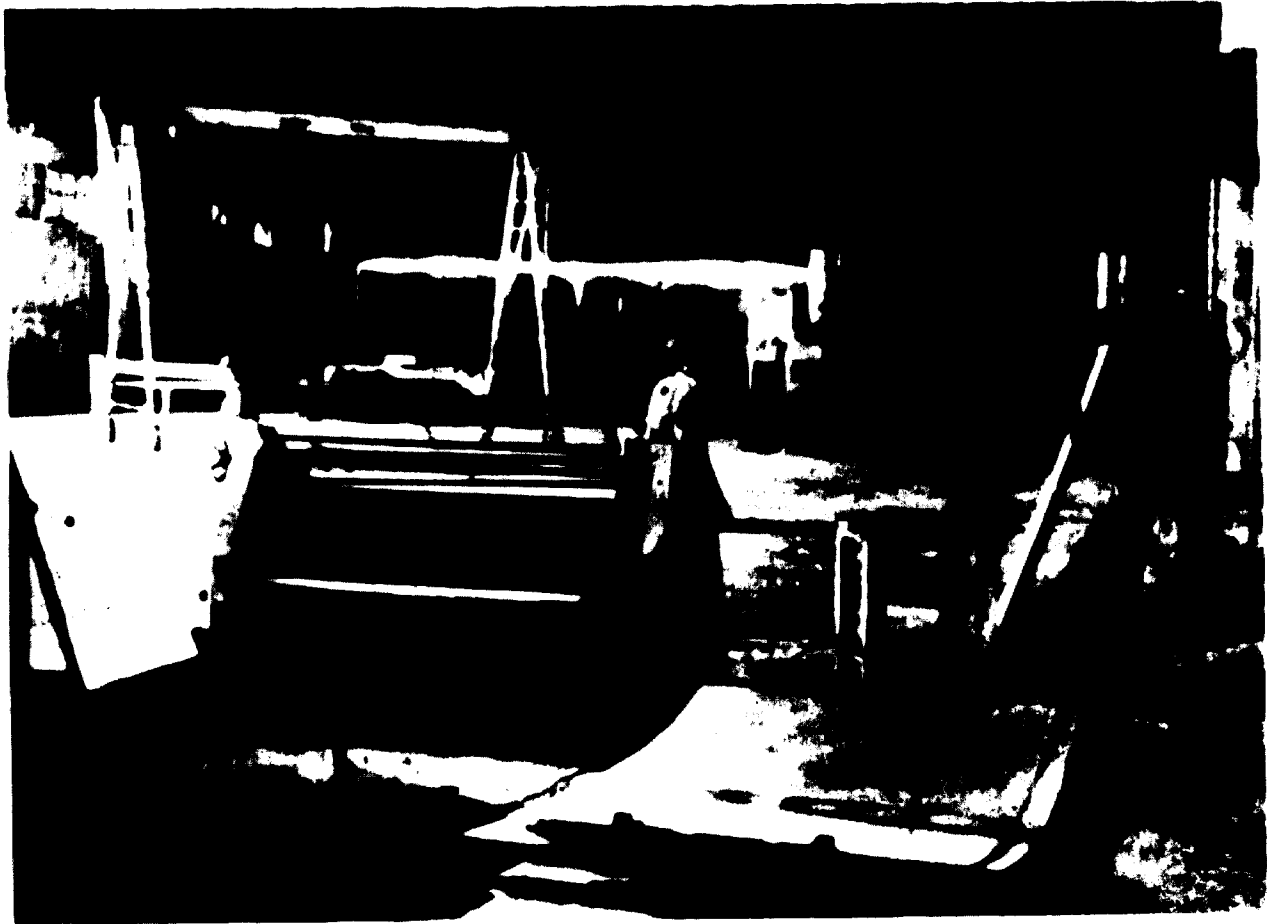
The testing and inspection of existing equipment was carried out in the following manner:

Practically all equipment shafts were rotated by hand (a large pipe wrench was used where necessary) and an evaluation was made of the bearings, seals, etc.

All cover plates were opened and inside inspections made of all machinery.

Per cent of "rust through" was checked by the punch and hammer method.

Motors, starters, electrical leads, etc. were megged for checking "resistance to ground".



MAIN PRODUCTION FLOOR
PISO DE PRODUCCION PRINCIPAL

Wherever possible, all equipment was inspected from both inside and out.

It was neither safe nor practical to start up the equipment at this time for the following reasons:

Since the equipment has been idle for many years, it is not practical or in many instances possible, to start up the motors and machinery until the bearings have been washed with solvent and lubricated.

Many of the lead wires to the panels and to the motors were lying in water. Some leads showed low resistance to ground after a heavy rain.

The substation transformer shows battle damage from machine gun or rifle fire. Even though the damage has been partially repaired, it does not appear advisable to energize the transformer until more thorough repairs have been made.

The motors have been subjected to rain and dampness due to the leaky roof. Moisture or fungus may have damaged the insulation. Even though the majority of motor windings were found to be of the proper resistance to ground, it was thought best to bake the motors before starting, as a precaution against possible damage.

It was judged impractical to start the motors because most fuses were missing in the substation panel, and some missing in the distribution panels. Some of the motor starters were missing or in bad condition, and not connected to the operator's panel.

Production Problems Anticipated

Thorough engineering review of the process design and of all installed equipment indicates that the following production problems are to be expected:

One vibrating screen per line is not sufficient to separate pith from usable fiber.

Bagasse will not feed properly from cone storage above the mixers.

The mechanism for feeding bagasse to the mixers is not adequate for proper quality control of the product.

The control system for the dryers does not provide for variable combustion air flow rates.

The plant has not been dustproofed, especially in the screen and mixing area.

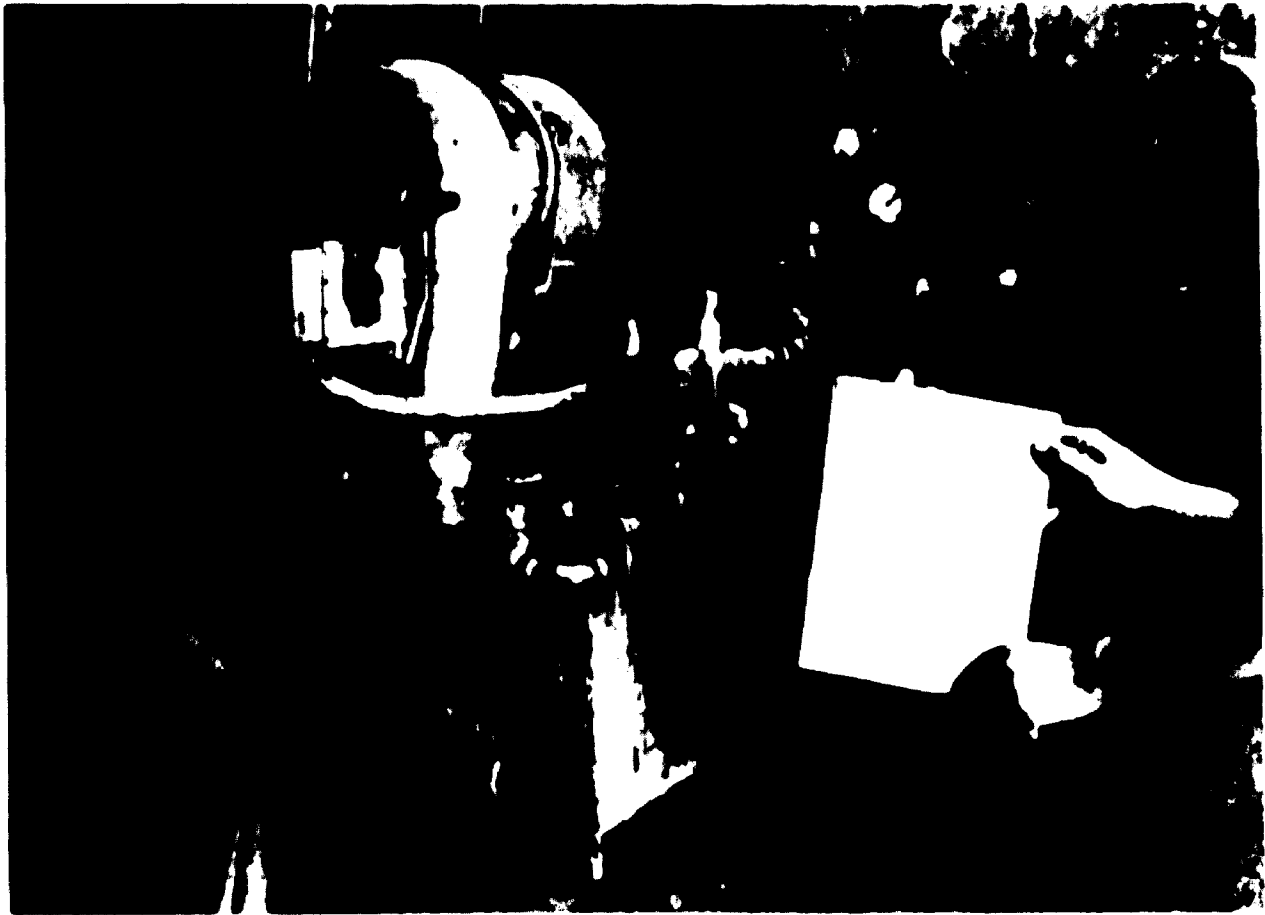
Adequate under-roof storage area to handle a six months' supply of dry bagasse has not been constructed. The storage area now being used is adequate for about a four month's supply.

The mixing area does not have adequate facilities for flushing and cleaning resin out of the equipment.

The plywood hot presses and the bagasse board extruder presses have relatively thin hot plates with small circulation passages for use of steam. The plant is provided with a hot water heating system which requires larger passage ways. Hot water will not heat the presses properly with the existing small passages.

Most of the machinery is equipped with outdated flat belt and pulley drives. These will be troublesome and unreliable. They are prone to slip when overloaded slightly.

Since the sugar mills operate on the average only six months of the year, it will be necessary for the two briquetting operations (Ozama and Barahona) to produce a total of 96 tons per day of briquettes. According to the reported rate of briquetting, and experience with this type of machinery at other locations, the required production will not be obtainable with present equipment.



OIL BURNER FOR FLASH DRYER
SHOWING DETERIORATION
QUEMADOR DE ACEITE PARA DESECADO
INSTANTANEO DEMOSTRANDO DETERIORO

Inventory Evaluation

In compliance with contract requirements, a complete inventory and evaluation of Domsuiza equipment, machinery and buildings has been prepared. The inventory was made by registered professional engineers who are leading specialists in particleboard plywood and hardboard production technology.

In addition to important technical information the inventory includes a description of present physical condition and an estimate of "residual value" for each item. We have also enumerated missing parts and associated restoration costs.

In Appendix I is an "Inventory and Evaluation Sheet" for each piece of equipment, building, and other facilities, related to the Domsuiza operation. These sheets are tabulated by sections, as follows:

Equipment:

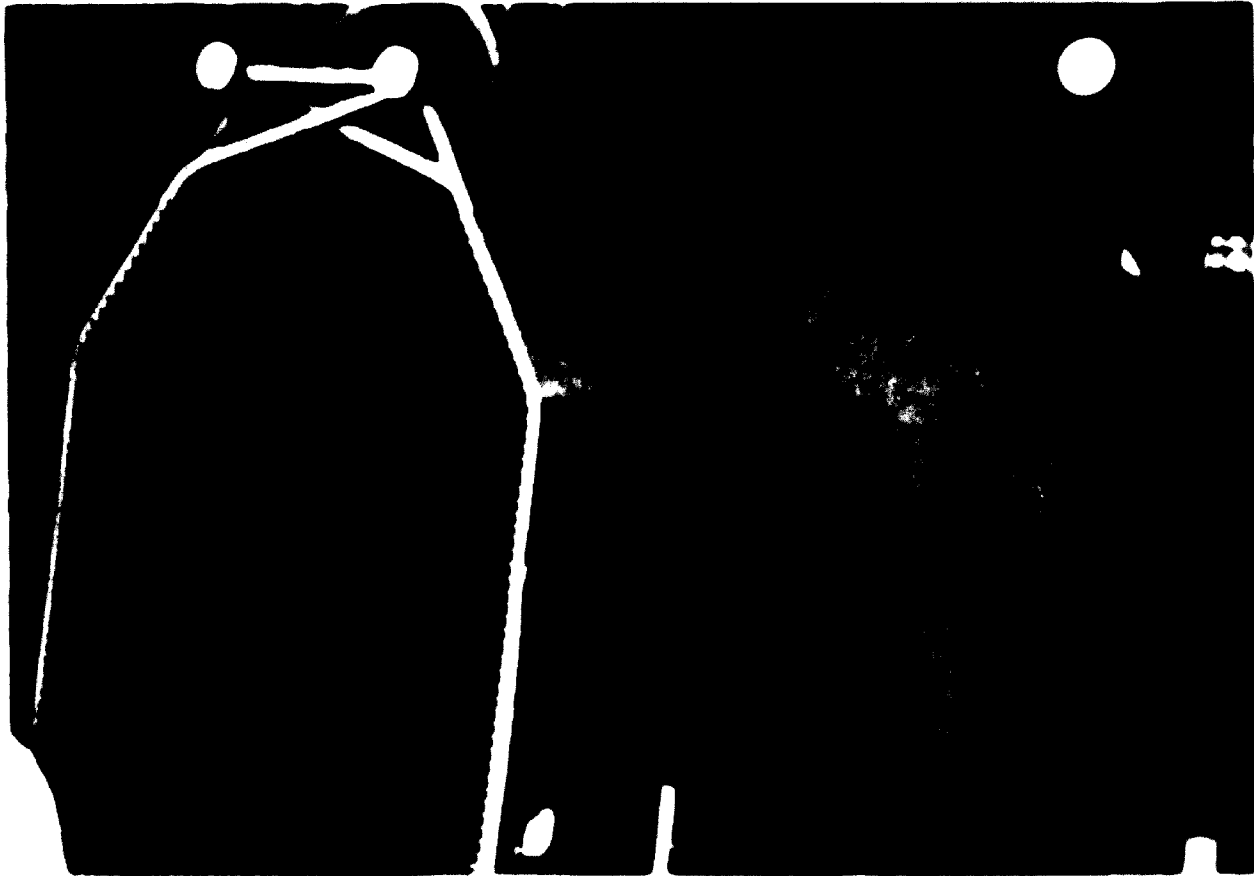
- Briquetting - Ozama
- Briquetting - Barahona
- Bagasse Particleboard Line A
- Bagasse Particleboard Line B
- Bagasse Particleboard Line C
- Veneer Line
- Veneered Bagasse Board and Plywood
- Moulded Products
- Plant Services

Buildings:

- Boiler House and Air Compressor Building
- Fiber Preparation Building (Plant #2)
- Main Production Building (Plants #3, 4, 5, 6)
- "Almacen" (Warehouse)
- "Taller" (Workshop)
- Roads, Sidewalks, Fencing

Missing Equipment: In addition to equipment on hand requiring restoration, equipment listed in the following table must be purchased for the facilities. As is readily seen, buying this missing equipment will require a significant capital outlay:

Dump trucks for transporting bagasse from storage to hammermill feeding area (2 required)	RD\$ 10,400
Front end loader	14,900
Magnetic pulleys for removing tramp metal at head of hammermill feed conveyor (2 required)	2,500
Additional bagasse drying air controls	2,500
Lighting for the facilities (2/3 total area)	31,000
Elevator - seven ton capacity (elevator shaft exists)	31,000
Log truck for transporting logs from dock to Domsuiza	7,800
Briquetting plant - one additional required	180,000
Dust and sawdust collecting system for main plant (cutoff saws, veneer jointer, sander, etc.)	11,500
Refuse conveyors (for veneer lathes, trim saws, etc.) to waste hog	9,500
Hog for grinding refuse for boiler fuel	3,300
Miscellaneous conveyors and feed table for most of the plywood equipment (see plant layout and inventory list)	22,500
Fire extinguishing equipment	11,600
Maintenance shop	33,000
Screener for Line B	8,500
Miscellaneous starters, wiring, and main feed lines including panels (#4, 72, 73, 74)	40,000
Capacitors for power factor correction	3,400
Lathe charger hoist and crane rail	4,200
Compressed air headers throughout plant - 125 psi lines	3,000
75 psi lines	1,500
Circulating hot water headers (insulated in both directions of flow)	5,000
Motors	7,800
Insulation for hot water distributors, pipes, bagasse dryers, and dryer combustion chambers	8,200
Push trucks for veneer section and warehouse area	4,500
Office equipment	3,900
Company vehicle (pickup)	6,200
Blacktop for portion of roadways at plant site	11,700
Fork lift	11,600
Spare parts	20,000
Miscellaneous laboratory and quality control equipment*	25,000
Barker for logs (hand-jig to be used)	2,000
Contingencies	25,000
<u>Total Missing Equipment</u>	<u>RD\$563,000</u>



PARTIALLY INSTALLED EQUIPMENT- BOILER
EQUIPO PARCIALMENTE INSTALADO-CALENTADOR

INTRODUCTION

This study concerns the Dominico-Suiza bagasse building board factory in Santo Domingo, Dominican Republic. Hereafter this plant will be referred to by its locally accepted name - Domsuiza.

The purpose of the study was to determine the technical and economic feasibility of rehabilitating the Domsuiza plant. The study was conducted by Sanderson & Porter, Inc. in accordance with United Nations Contract No. CON 76/78.

The Contractors

Founded in 1896, Sanderson & Porter is one of the oldest international engineering and consulting firms in the United States. For the last decade, the firm has conducted agricultural, economic and industrial feasibility studies in the underdeveloped areas of the world. Sanderson & Porter has had considerable experience with bagasse utilization studies, and plywood, veneer, and lumber assignments. The firm is active throughout the world, including Latin America, and has a wholly owned engineering subsidiary in Brazil known as SELTEC.

For the Domsuiza project, Sanderson & Porter engaged the International Design Corporation for certain technical aspects of the assignment. The International Design Corporation was established in 1951 and has specialized since then in engineering studies of wallboard, hardboard and particleboard plants which use a wide variety of raw materials. The firm maintains its own laboratory and pilot operations allowing it to manufacture and test panelboard samples and to evaluate resins. International Design Corporation's experience with bagasse board facilities is unequalled. The firm has engineered plants or conducted studies concerning bagasse-board processing in India, Hawaii, Trinidad, Venezuela and Barbados. They are also experienced in veneer and plywood plant engineering.

Freight, packing, insurance, etc.	30,000
Engineering and installation	<u>80,000</u>
<u>Total Cost Installed Domsuiza</u>	RD\$673,000

One item of laboratory equipment is stored at the Swiss Precision Machinery Corporation at Bayamon, Puerto Rico. It is used for making accelerated aging tests on panel product samples. This machine was diverted to Puerto Rico after it was shipped from Germany.

Summary Evaluation

The information contained in Appendix I is capsulized here as an estimate of the current value of the buildings and equipment inventory. We have also estimated the expenditures necessary to restore, replace, or purchase whatever equipment is required to bring the plant to operation:

	<u>Residual Value RD\$</u>	<u>Restoration Cost Plus Missing Equipment RD\$</u>	<u>Total RD\$</u>
Bagasse Particleboard:			
Buildings	51,000	98,400	149,400
Equipment	<u>174,800</u>	<u>509,800</u>	684,600
<u>Sub-Total</u>	<u>225,800</u>	<u>608,200</u>	
Veneer (from logs):			
Buildings	12,750	24,600	37,400
Equipment	<u>50,650</u>	<u>139,000</u>	189,600
<u>Sub-Total</u>	<u>63,400</u>	<u>163,600</u>	
Layup Section (for plywood or adding veneer):			
Buildings	21,250	41,000	62,200
Equipment	<u>24,050</u>	<u>205,700</u>	229,800
<u>Sub-Total</u>	<u>45,300</u>	<u>246,700</u>	
Total All Buildings	85,000	164,000	249,000
Total All Equipment	249,500	854,500	1,104,000
<u>Grand Total Buildings and Equipment</u>	<u>334,500</u>	<u>1,018,500</u>	<u>1,353,000</u>

INDUSTRIAL DOMINICO SUIZA C. por A.
BALANCE SHEET
December 31, 1967

Exhibit 1

ASSETS

Current Assets

Cash	RD\$	50.00
Documents and Accounts Receivable		42,741.99
Inventories		34,168.70

<u>Total Current Assets</u>		76,960.69
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Fixed Assets Appendix III - Note 1

Improvements and Work in Process (Machinery)		3,196,586.67
Improvements and Work in Process (Buildings)		
Less Planned Work in Explosion Indemnifica- tion 11/7/64 - PE\$47,049.25		595,789.47
Miscellaneous Fixed Assets		13,141.81

<u>Total Fixed Assets</u>		3,805,517.95
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Deferred Charges - Note 2		665,833.43
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Other Assets		505.00
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<u>TOTAL ASSETS</u>		RD\$4,548,817.07
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LIABILITIES AND STOCKHOLDER EQUITY

Current Liabilities

Accounts Payable (Misplaced Documents)		147,994.31
Accounts Payable to Suppliers - Note 3		47,249.95
Accumulated Interest - Note 4		227,448.23
Corporacion de Fomento Industrial		123,752.60
Corporacion Dominicana de Empresas Estatales		35,636.47
Banco de Reserva de la Rep. D - Note 5		76,847.34
Accrued taxes and expenses		33.12

<u>Total Current Liabilities</u>		658,961.02
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Deferred Credits

Advances Received - Note 6		218,948.47
Others		7,426.02

<u>Total Deferred Credits</u>		226,374.49
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Fixed Liabilities

Estado Dominicano - Note 7		350,000.00
Swiss Metallurgical Corp. - Note 8		1,887,980.56

<u>Total Fixed Liabilities</u>		2,237,980.56
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Stockholders Equity - Note 9

Preferred Stock		300,000.00
Common Stock		1,125,000.00

<u>Stockholders Equity</u>		1,425,000.00
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<u>TOTAL LIABILITIES AND STOCKHOLDERS EQUITY</u>		RD\$4,548,817.07
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ECONOMICS

This section explores the various financial and cost considerations underlying the feasibility of rehabilitating Domsuiza. It includes:

- Analysis of the present financial position.
- Estimation of additional capital requirements.
- Projection of operating costs and sales prices.
- Cost/benefit analysis.

Financial Position

Analysis of Domsuiza's financial position indicates a condition of insolvency.

The most recent balance sheet dated December 31, 1967 (Exhibit D) showed current assets of only RD\$76,961 compared to current liabilities of RD\$658,962. This leaves a working capital deficit of RD\$582,001. Current assets consist of RD\$50 in cash, RD\$42,742 in bills, notes, and accounts receivable, and RD\$34,169 in inventories. Since no allowance has been made for uncollectable accounts receivable the current assets figure is questionable. Also, the inventory value includes RD\$24,216 of raw bagasse that is not readily marketable.

Fixed assets (buildings and equipment) are grossly overstated as related to their current value. The buildings and equipment were installed in 1960 and 1961. As is to be expected, significant deterioration has taken place, but this fact has not been reflected on the books. Also, Domsuiza was never fully completed nor operated as a going concern; no revenues were generated. As a result depreciation of buildings and equipment was not expensed and the fixed asset accounts still reflect the original cost of the assets.

To determine the current actual value of Domsuiza's fixed assets the detailed Equipment Inventory and Evaluation included in the preceding section was undertaken. Each building and each piece of equipment was carefully examined and evaluated by technical personnel who are skilled in the design, engineering, and construction of bagasse and wood fiber particleboard plants. The assessment of the present worth of fixed assets was based on the assumption that the plant would be rehabilitated and operated. It should not be confused with the salvage value of the equipment. By definition, this value to Domsuiza throughout the report is called "residual value". Residual value for the Domsuiza equipment is RD\$249,500. Significantly, book value for this equipment is RD\$3,196,587. The residual value of the buildings is RD\$85,000. Book value is RD\$595,789.

For purposes of analysis we have restated assets to reflect the residual values of equipment and buildings:

Current Assets	RD\$ 76,961
Equipment	249,500
Buildings	85,000
Other Assets	<u>505</u>
	RD\$ 411,966

Deferred charges have not been included in this restatement of assets. An analysis of this account showed that it has little current value for purposes of settling creditors' accounts.

Creditors' claims totaled RD\$2,123,317. These consisted of current liabilities of RD\$658,962; advances received and other deferred credits of RD\$226,374; and fixed liabilities in the form of mortgages payable and contractual agreements of RD\$2,237,981. Creditors' claims thus exceed assets as restated above by RD\$2,711,351. Obviously, Domsuiza could not start operations with the presently held assets and hope to retire the outstanding liabilities.

Complicating the analysis is the existing legal dispute between Swiss Precision Manufacturing and the Dominican Republic. Swiss Precision Manufacturing claims a substantial sum due as payment



ROOF DAMAGE
TECHO DETERIORADO

for equipment delivered under the original contractual agreements. Investigations in Germany, Switzerland, Puerto Rico, and the Dominican Republic showed that the full line of equipment was not delivered, that some of it was diverted to Puerto Rico and that some of it was sold in Germany. The value of the undelivered equipment has not been determined.

If the decision were made to proceed with restoring and operating this venture, a settlement would have to be arranged with creditors to reduce these legal liabilities. One alternative would be to reorganize the present company by writing down the assets and liabilities and issuing the creditors an amount of equity capital in Domsuiza fractionally proportionate to the amount that Domsuiza owes each creditor. A second alternative would be to declare bankruptcy and form a new company, which would then buy the Domsuiza assets. Income realized from the sale of assets would be applied against creditors' claims. This would allow the new company a fresh start free from the poor credit reputation which would necessarily accompany the first alternative.

Because of the negative findings regarding projected profitability which are developed in other sections of this study, and the overall recommendation not to restore the venture, the most advisable alternative would be to liquidate the assets and apply the proceeds against liabilities.

Capital Requirements

Expenditures necessary for physical rehabilitation of the present plant and equipment were presented in Equipment Inventory and Evaluation. New equipment needed was also itemized. These capital outlays require new financing:

Restoration of Buildings	RD\$ 164,000
Restoration of Equipment	181,500
Purchase and Installation of Missing Equipment	<u>673,000</u>
	RD\$1,018,500

Beyond this, adequate working capital must be provided to assure sufficient funding for ongoing operations. A number of factors

were considered in developing the working capital requirements for Domsuiza:

Startup problems traditionally accompany the beginning of manufacturing operations in a large plant of this type. Miscellaneous defects appear in equipment not only snarling production but also incurring unexpected expenses. Several months are normally required before substantial cash inflows may be expected.

Productivity of workers is expected to be low for a number of months after startup while the men are learning their new tasks. Both time and money will be required during this period to provide thorough "on the job" training of workers and supervisors.

Inventories of raw materials and finished products require financing. A plant of this type requires the stocking of a large supply of raw materials as well as the warehousing of the finished product. Logs, resin, and wax must be purchased in large quantities in order to qualify for quantity discounts. Moreover, the sugar mills operate only six months of the year and it is necessary for Domsuiza to purchase double quantities of bagasse during the months bagasse is available. The surplus would be stored and used for board production during the season when the sugar mills are closed down.

Delay is to be expected in the collection of accounts receivable. Collections are expected to lag behind shipments by as much as 30 to 60 days. A common practice in the industry to provide funds during this delay is to bank the accounts receivable invoices, using the invoices as collateral to borrow necessary working capital.

Based upon the above and drawing upon prior experience with similar operations, working capital requirements for each of the three production lines at full capacity were developed:

<u>Product</u>	<u>Working Capital Required</u>
Veneered Bagasse Board	RD\$524, 000
Plywood	751, 000
Veneer	390, 000

Full details underlying these working capital requirements are included in the following section which develops operating costs and selling prices.

Projected Operating Costs and Selling Prices

The production costs and the estimated sales prices for the various Domsuiza products are developed in the following pages. A number of the assumptions underlying these estimates warrant discussion.

In today's U. S. particleboard industry, ventures comparable to Domsuiza cannot attract investment capital without projecting approximately 25 per cent profits on sales before taxes. Because of social and political considerations investors might be persuaded to consider a somewhat lower rate in Domsuiza's case. We have used a figure of 18 per cent in developing sales prices.

Concerning the amortization of the RD\$3,123,317 that Domsuiza presently owes to creditors, a settlement must be made with creditors. This amount must be written off the Domsuiza books. The cost analysis assumes that Domsuiza would not be burdened with this debt load.

Operations such as Domsuiza are most efficient when the plant is running at full capacity. Operating expenses therefore are not directly proportional to the level of production; rather they are proportionally higher at the lower production levels.

Veneering the bagasse particleboard raised a particular problem: it was not originally known whether it would be cheaper to import veneer, or to import logs and produce the veneer at Domsuiza. A comparative cost analysis was undertaken which indicated that the most attractive alternative would be to import logs and produce the veneer at Domsuiza.

In the following cost analysis the equipment has been depreciated using the straight line method over ten years, and the buildings have been depreciated over 20 years. The financing for renovation and working capital has been assumed to carry a 7 per cent interest charge.

Exhibits E, F, and G and the associated Schedules detail production costs and estimated sales prices for the various Domsuisa products.

DOMSUIZA
Veneered Bagasse Board
Computation of Operating Cost
and Estimated Sales Price

Plant Capacity = 7500 metric tons annually
= 9500 M sq. ft. (3/4" basis)

	Operating Level		
	1500 m. t.	2500 m. t.	5000 m. t.
Raw Materials - Schedule 1			
Bagasse	RD\$ 36,000	RD\$ 60,000	RD\$ 120,000
Resin	65,100	108,500	217,000
Hardener	5,050	8,417	16,833
Wax	6,300	10,500	21,000
Pentachlorophenol	12,600	21,000	42,000
Logs	45,600	76,000	152,000
Glue	15,200	25,333	50,666
Subtotal	185,850	309,750	619,500
Operating Expenses - (a)			
Direct Labor - bagasse board - Schedule 2	62,280	103,800	207,600
Direct Labor - veneer - Schedule 3	11,940	19,900	39,800
Direct Labor - overlaying veneer - Schedule 4	20,460	34,100	68,200
Supplies - Schedule 5	25,500	42,500	85,000
Contingencies and miscellaneous expenses	19,500	32,500	65,000
Subtotal	139,680	232,800	465,600
Utilities and Fuel			
Power - Schedule 6	14,206	23,674	47,348
Fuel - Schedule 7	849	1,416	2,832
Subtotal	15,055	25,090	50,180
Fixed Overhead Expense			
Indirect Labor - Schedule 8	19,750	19,750	19,750
Fire and Liability Insurance - Schedule 10	21,660	21,660	21,660
Depreciation Equipment - Schedule 9	92,400	92,400	92,400
Depreciation Buildings - Schedule 9	12,450	12,450	12,450
Subtotal	146,260	146,260	146,260
Operating Cost Total	486,845	713,900	1,281,540
General Overhead Expense			
Administrative Expense - Schedule 8	23,500	23,500	23,500
Sales Expense at 5% of Sales	37,510	52,629	90,495
Interest Expense - Schedule 10	67,315	73,079	87,690
Subtotal	128,325	149,208	201,685
Total Cost	615,170	863,108	1,483,225
Units (1000 sq. ft.)	1,900	3,166	6,332
Cost per 1000 sq. ft.	324	273	234
Sales @ 18% profit before taxes	750,208	1,052,570	1,808,540
Sales price per 1000 sq. ft.	395	332	286

Project Staff

Project Officers:

S. S. Mieczko	Officer-in-Charge
Dale L. Schubert	Project Director
R. E. Steere	Economist

Technical Personnel:

Donald A. Sangesand	Civil Engineer
Stanley Matejka	Mechanical Engineer
Freeman C. Felt	Electrical Engineer
Lee Gilles	Industrial Engineer
C. George Evans	Marketing Specialist
Patrick Bernuth	Editor
Kenneth Skoog	Coordinator

Contractor's Approach

While paying closest attention to the economic and technical considerations of the assignment, the consulting team has carefully maintained its sensitivity to the human aspects of the project, and the need in the Dominican Republic for manufacturing operations - especially those associated with the nation's housing effort. The necessity to employ people, to train people, and to develop the basis of a national manufacturing complex were fully understood.

Notwithstanding, a review of this report will show that it is not feasible to rehabilitate Domsuiza. Because of this conclusion, a considerable effort was expended in trying to develop alternate uses for the plant and equipment. Despite the search for a creative program, no alternative proved practical when evaluated in the light of business and technical realities. To approve a project which will not be viable in the competitive arena of the world's economics is both unprofessional and damaging to a nation's economy. This wastes the host countries already limited resources where they may be better devoted to industries which are in fact productive.

DOMSUIZA
Vetered Bagasse Board
Computation of Operating Cost
and Estimated Sales Price

Exhibit E

annually
 /4" basis)

	Operating Level			
	1500 m. t.	2500 m. t.	5000 m. t.	7500 m. t.
	RDS\$ 36,000	RDS\$ 60,000	RDS\$ 120,000	RDS\$ 180,000
	65,100	108,500	217,001	325,500
	5,050	8,417	16,833	25,250
	6,300	10,500	21,000	31,500
	12,600	21,000	42,000	63,000
	45,600	76,000	152,001	228,000
	15,200	25,333	50,666	76,000
	<u>185,850</u>	<u>309,750</u>	<u>619,501</u>	<u>929,250</u>
- Schedule 2	62,280	103,800	207,600	259,500
ule 3	11,940	19,900	39,800	49,750
eer - Schedule 4	20,460	34,100	68,200	85,250
	25,500	42,500	85,000	106,250
us expenses	19,500	32,500	65,000	97,500
	<u>139,680</u>	<u>232,800</u>	<u>465,600</u>	<u>598,250</u>
	14,206	23,674	47,352	71,028
	849	1,416	2,833	4,250
	<u>15,055</u>	<u>25,090</u>	<u>50,185</u>	<u>75,278</u>
	19,750	19,750	19,750	19,750
- Schedule 10	21,660	21,660	21,660	27,060
odule 9	92,400	92,400	92,400	110,400
odule 9	12,450	12,450	12,450	12,450
	<u>146,260</u>	<u>146,260</u>	<u>146,260</u>	<u>169,660</u>
	<u>486,845</u>	<u>713,900</u>	<u>1,281,546</u>	<u>1,772,438</u>
	23,500	23,500	23,500	23,500
odule 8	37,510	52,629	90,426	124,057
	67,315	73,079	87,519	114,540
	<u>128,325</u>	<u>149,208</u>	<u>201,445</u>	<u>262,097</u>
	<u>615,170</u>	<u>863,108</u>	<u>1,482,991</u>	<u>2,034,535</u>
	1,900	3,166	6,333	9,500
	324	273	234	214
	<u>750,208</u>	<u>1,052,570</u>	<u>1,808,526</u>	<u>2,481,140</u>
	395	332	286	261

Exhibit E
Veneered Bagasse Board:
Projected Costs and Sales
Price

Exhibit E
Schedule 1

DOMSUIZA
Schedule of Raw Materials
To Produce Veneered Bagasse Board

Production Rate

All schedules are calculated at full production capacity.
 Annual capacity (tonnage) = 7500 metric tons
 Daily capacity (tonnage) = 30 metric tons
 Annual capacity (sq. ft., 3/4" basis) = 9500 M sq. ft.
 Daily capacity (sq. ft., 3/4" basis) = 38 M sq. ft.

Bagasse (dry weight basis)

Annual Cost
RD\$

Quantity required each day of raw bagasse (including pith) for hammermill (dry weight basis)

$$= \frac{(30)}{1} \frac{(51)}{(48)} \frac{(99)}{(96)} \frac{(1)}{(1.14)} \frac{(1)}{(0.95)} \frac{(1)}{(0.60)} \frac{(1)}{(1.06)}$$

(*) (**) (***) (****) (*****) (*****)

- * mill out put
- ** trim waste
- *** resin wax, hardener and Penta
- **** miscellaneous loss
- ***** pith loss
- ***** moisture

= 48.0 metric tons

Unit price = RD\$15/ton dry basis FOB Domsuiza

Cost of bagasse = (15) (48.0) = RD\$720/day RD\$180,000

Annual Cost

Quantity of bagasse fiber into mixer (dry weight basis)

$$= \frac{(30)}{1} \frac{(51)}{(48)} \frac{(99)}{(96)} \frac{(1)}{(1.14)} \frac{(1)}{(0.95)} \frac{(1)}{(1.06)} (2200)$$

(*) (**) (***) (****) (*****)

* mill out put

** trim waste

*** resin, wax, hardener, and Penta

**** miscellaneous loss

***** moisture

= 63,000 lbs.

Resin

As a percentage of bagasse fiber = 10%

Quantity = (.10) (63,000 lb) = 6300 lb

Unit Price = RD\$.125/lb. dry basis @ 60%

Solids FOB Domsuiza

$$\text{Cost} = \frac{(.125)(6300)}{.60} = \text{RD}\$1302/\text{day}$$

RD\$325,500

Hardener

As a percentage of bagasse = 1%

Quantity = (.01) (63,000) = 630 lb.

Unit Price = RD\$.16/lb. FOB Domsuiza

$$\text{Cost} = (.16)(630) = \text{RD}\$101/\text{day}$$

RD\$ 25,250

Wax

As a percentage of bagasse = 2%

Quantity = (.02) (63,000) = 1260 lbs.

Unit Price = RD\$.10/lb., FOB Domsuiza

$$\text{Cost} = (.10)(1260) = \text{RD}\$126/\text{day}$$

RD\$ 31,500

Annual Cost

Pentachlorophenol

As a percentage of bagasse = 1%
Quantity = (.01) (63,000) = 360 lb.
Unit Price = RD\$.40/lb. FOB Domsuiza

Cost = (.40) (630) = RD\$252/day RD\$ 63,000

Logs - for veneering

Quantity of veneer (1/20") from M bd. ft.
of logs at 50% yield = 10 M sq. ft.
Price of logs per M bd. ft. Doyle scale
FOB Dominican Republic = RD\$120/
M bd. ft.

Cost of logs to veneer 38 M sq. ft. two sides

$$= \frac{38 \times 2 \times 120}{10} = \text{RD\$912/day} \quad \text{RD\$228,000}$$

Glue - for veneering

Area for gluing, 38 M on two sides = 76 M
sq. ft.

Price = \$4 per M sq. ft.

Cost = 4 x 76 = RD\$304/day RD\$ 76,000

Exhibit E
Schedule 2

DOMSUIZA
Schedule of Direct Labor Expenses
for Producing Bagasse Board *

<u>Position</u>	<u>Men Per Shift</u>	<u>Shifts</u>	<u>Men Per Day</u>	<u>Rate Per Day</u>	<u>Cost Per Day RD\$</u>
Truck Drivers	2	3	6	RD\$ 7	RD\$ 42
Hammermill and Dryer Operator	1	3	3	8	24
Raw Bagasse Handlers **	8	3	24	4	96
Screening Area Worker	1	3	3	8	24
Mixing Machine Operators	2	3	6	8	48
Resin Preparation Operators	2	3	6	8	48
Extruder Press Operators	2	3	6	12	72
Cutoff Saw Operator and Stackers	4	3	12	8	96
Utility and Relief Man	1	3	3	10	30
Mechanic	1	3	3	16	48
Mechanic's Helper	1	3	3	11	33
Electrician	1	3	3	18	54
Guards	2	3	6	6	36
Janitors	2	3	6	4	24
Foreman	1	3	3	19	57
Inspection and Quality Control Men	1	3	3	15	45
Warehousemen	2	2	4	8	32
Lift Truck Driver	1	3	3	7	21
Sub-Total			103		RD\$ 930
Fringe benefits, vacations, etc. @ 25%					208
Total direct labor/day					RD\$1,038
Annual Cost					RD\$259,500

* Labor used 5 months per year at sugar mills for briquetting is included in the price of bagasse.

** Labor rates have increased steadily over the last decade. Recruitment problems are not expected for unskilled and semi-skilled labor since unemployment is estimated at 20%. For proper staffing a technician specializing in plywood and particle board would be required.

Exhibit E
Schedule 3

DOMSUIZA
Schedule of Direct Labor Expenses
For Producing Veneer

<u>Position</u>	<u>Men Per Shift</u>	<u>Shifts</u>	<u>Men Per Day</u>	<u>Rate Per Day</u>	<u>Cost Per Day RD\$</u>
Log Loaders and Unloaders	4	1	4	RD\$ 4	RD\$ 16
Vat Laborers	4	1	4	4	16
Log Crane Operator	1	1	1	8	8
Truck Driver (dock to plant)	1	1	1	7	7
Lathe Chargers	2	1	2	8	16
Lathe Operator	1	1	1	10	10
Reel Operators	2	1	2	8	16
Green Sorting Workers	3	1	3	7	21
Drier Feeders	3	1	3	5	15
Drier Unloaders	3	1	3	5	15
Foreman	1	1	<u>1</u>	19	<u>19</u>
Sub-Total			25		RD\$159
Fringe benefits, vacations, etc. @ 25%					<u>40</u>
Total direct labor/day					RD\$199
Annual Cost					RD\$49,750

Exhibit E
Schedule 1

DOMSUIZA
Schedule of Direct Labor Expenses
For Overlaying Bagasse Board with Veneer

<u>Position</u>	<u>Men Per Shift</u>	<u>Shifts</u>	<u>Men Per Day</u>	<u>Rate Per Day</u>	<u>Cost Per Day RD\$</u>
Veneer Jointing Operators	4	1	4	RD\$ 8	RD\$ 32
Veneer Storage Laborers	4	1	4	4	16
Veneer Edge Gluing and Taping Workers	4	1	4	8	32
Truck Driver	1	1	1	7	7
Lift Truck Operators	2	1	2	8	16
Lay Up Operators	4	1	4	8	32
Press Operators	2	1	2	8	16
Trim Saw Operators	3	1	3	5	15
Warehousemen	4	1	4	5	20
Cleanup Man	1	1	1	4	4
Sanding Machine Operators	4	2	8	8	64
Foreman	1	1	1	19	19
Sub-Total			38		RD\$273
Fringe benefits, vacations, etc. @ 25%					68
Total direct labor/day					RD\$341
Annual Cost					RD\$85, 250

DOMSUIZA
Supplies for Production
of Veneered Bagasse Board

Experience with similar facilities indicates that production supplies will include the following:

Bagasse Board Line

Hammermill knives	Grease and oil
Screens	Belts
Saw blades	Tool replacements
Welding rod, steel and bottled gas	Equipment spares
Bearings	Miscellaneous
Cost	RD\$300 per day

Veneer and Glue Line

Oil	Saw blades
Grease	Bearings and belts
Lathe knives	Miscellaneous
Cost	RD\$125 per day
Total (both lines)	RD\$425 per day
Annual Cost	RD\$106,250

DOMSUIZA
Schedule of Power Requirements for
Production of Veneered Bagasse Board

Power Requirements*

Bagasse Board Production
Demand: 460 kw x 0.80 demand factor + 0.90 p. f. = 410 kva
Load: 460 kw x 0.70 load factor = 320 kw

Veneer - Plywood - Miscellaneous
Demand: 315 kw x 0.50 demand factor + 0.90 p. f. = 175 kva
Load: 315 kw x 0.32 load factor = 100 kw

Plant Services including lighting
Demand: 430 kw x 0.90 demand factor + 0.90 p. f. = 430 kva
Load: 430 kw x 0.70 load factor = 300 kw

Total Plant Demand 1015 kva
Total Plant Average Load 720 kw

Energy Used Per Month
720 kw x 24 hour x 21 working days/mo. = 362,800 kwh/mo.

Energy Cost

Refer to tariff Nos. 1-4 and C-4 of General
Regulations (Reglamento General) Cor-
poration Dominicana de Electricidad
pages 21 and 22.

	RD\$
Monthly demand charge for 1015 kva	1852
Monthly energy charge for 362,800 kwh	3815
Monthly combustible oil cost charge for 362,800 kwh (based on oil cost of RD\$0.940)	272
	RD\$5939
Total Monthly Cost	RD\$5939
Annual Cost	RD\$71,272

* Power for the entire plant is calculated here and pro-
portioned for the various sections of the plant.

Organization

This report is organized in traditional divisions and generally in keeping with the suggested report outline of the United Nations. Since a tremendous amount of raw data was assembled it was felt that this would be the most concise and orderly manner in presenting our key findings. The first step in the study was to examine the background of Domsuiza and its products. In subsequent steps, an evaluation of production, a financial analysis and finally an examination of the market for the Domsuiza products were made.

Throughout the report, we have used RD\$ to indicate Dominican Republic dollars which are on a par with the United States dollars.

Originally in the preparation of this report the metric system was used. However, this became impractical and the United Nations granted a waiver of this requirement. Subsequently, English measure was used for those references which in the Dominican Republic are commonly quoted in the English system, i. e.; four by eight foot panels. In each instance we have quoted dimensions in the system of measurement which would be most easily understood. The plant layout drawings have been kept in the metric system.

This report is being submitted in English and Spanish. There are always inherent translation problems with this requirement. Perfection of style has been sacrificed to some extent in an attempt to keep meanings clear and identical in both English and Spanish. Certain engineering drawings have not been translated into Spanish. These drawings which describe backup material will be comprehensible to engineers, regardless of their native language.

The cooperation and assistance we received from people both in and outside of the Dominican Republic is gratefully acknowledged.

DOMSUIZA
Schedule of Fuel Requirement for
Production of Veneered Bagasse Board

Calculation of Fuel Requirements

Parameters:*

- 48 metric tons of bagasse fiber per day for dryers
- moisture content of bagasse at 15% before drying
- moisture content before mixing to be reduced to 4%
- 2200 BTU required to evaporate one pound of water
- 150,000 BTU supplied per gallon of fuel oil

Oil Required for Flash Dryers

Water to be Evaporated
 $= (48.0) (2200) (.15 - .04) =$
 $= 11,600 \text{ lb. per day}$

Oil Quantity
 $= \frac{(11,600) (2200)}{150,000}$
 $= 170 \text{ gallons per day}$

Oil Cost

Quantity = 170 gallons per day
Price = RD\$.10 per gallon
Cost = RD\$17.00 per day
Annual Cost = 17.00 x 250 = RD\$4,250

***Based on experience in other mills, it is expected that the trim, pith, and miscellaneous waste will supply ample fuel for the heating of the presses and log vats. (No heat required in buildings).**

DOMSUIZA
Schedule of Indirect Labor
and Administrative Expense,
Veneered Bagasse Board Production

<u>Indirect Labor</u>	<u>Cost Per Day</u>
Manager (50% allocation)	RD\$19
Quality Control (Chief plus Asst.)	20
Superintendent	<u>24</u>
Sub-total	RD\$63
Fringe Benefits (25%)	<u>16</u>
Total	RD\$79/day
Annual Cost	RD\$19,750
<u>Administrative Expense</u>	
Manager (50% allocation)	RD\$19
Accountant	21
Clerks (3) at RD\$9 each	27
Typist	<u>8</u>
Sub-total	RD\$75
Fringe Benefits at(25%)	<u>19</u>
Total	RD\$94/day
Annual Cost	RD\$22,500

Exhibit E
Schedule 9

DOMSUIZA
Schedule of Depreciation
of Buildings and Equipment
for Producing Veneered Bagasse Board

	Buildings	
	<u>Residual Value</u>	<u>Restoration (+) Missing Equipment</u>
Bagasse Particleboard Line	RD\$51, 000	RD\$ 98, 000
Veneer Line	21, 750	24, 600
Layup Section	21, 250	41, 000
Total	RD\$85, 000	RD\$164, 000
Total Residual Value + Needed Improvements	=	\$249, 000
Depreciation - Buildings, 20 years Straight Line	=	12, 450/yr.

	Equipment	
	<u>Residual Value</u>	<u>Restoration (+) Missing Equipment</u>
Bagasse Particleboard Line	RD\$174, 800	RD\$509, 800
Veneer Line	50, 650	139, 000
Layup Section	24, 050	205, 700
Total	RD\$249, 500	RD\$854, 500
Total Residual Value + Needed Improvements	=	RD\$1, 104, 000
Depreciation - Equipment 10 years Straight Line	=	110, 400/yr.
Total Buildings, Equipment and Improvements	=	RD\$1, 353, 000

DOMSUIZA
Schedule of Working Capital
New Capital Requirements
Interest Expense and Insurance Expense
for Producing Veneered Bagasse Board

<u>Estimate of</u> <u>Peak Working Capital (b)</u>		<u>Estimate of</u> <u>Average Working Capital (b)</u>	
Bagasse Inventory (6 mo.)	RD\$ 90,000	Bagasse Inventory (3 mo.)	RD\$ 45,000
Other Raw Material In- ventory (2 mo.)	125,290	Other Raw Material Inventory (2 mo.)	125,290
Finished Goods and A/R (60 days)	323,000	Finished Goods and A/R	323,000
Start Up - Training and Miscellaneous	80,000	Miscellaneous	30,000
	<u>RD\$618,290</u>		<u>RD\$523,290</u>

New Capital Requirements

Building Restoration + Missing Equipment	=	RD\$ 164,000	Schedule 9
Equipment Restoration + Missing Equipment	=	854,000(a)	Schedule 9
Working Capital		<u>618,290(c)</u>	
 Total New Capital		 RD\$1,636,290	
 Interest Expense at 7%	 =	 114,540(a)	
Total - Buildings, Equipment and Improve- ments	=	1,353,000	(Schedule 9)
Fire and Liability Insurance @ 2%	=	27,060	

- (a) For production operating levels at less than 67% capacity, the expenses associated with purchasing an additional briquetting plant (RD\$180,000) must be removed.
- (b) For production at less than full capacity, working capital is reduced proportionately.
- (c) Peak working capital requirements are used as the basis for interest calculations for the first year of operations.

DOMSUIZA
Plywood
Computation of Estimated Sales Price

Annual Production - 10,000 metric tons
 Basis - 3/4" plywood - 7 ply

	1,667 tons <u>year</u>	3,333 tons <u>year</u>	Operating Level 6,667 tons <u>year</u>
<u>Raw Materials - Schedule 1</u>			
Logs (1/10" veneer)	RD\$151,985	RD\$ 303,970	RD\$ 607,940
Logs (1/6" veneer)	190,000	380,001	760,002
Glue (6 lines)	380,000	76,000	152,000
Subtotal	379,985	759,971	1,519,942
<u>Operating Expenses</u>			
Direct Labor (veneer production) - Schedule 2	22,950	45,900	91,800
Direct Labor (plywood from veneer) - Schedule 3	20,650	41,300	82,600
Supplies - Schedule 4	6,666	13,333	26,666
Contingencies and Miscellaneous Expenses	6,334	12,667	25,334
Subtotal	56,600	117,200	234,400
<u>Utilities</u>			
Power - Schedule 4	5,600	11,200	22,400
<u>Fixed Overhead Expense</u>			
Indirect Labor - Schedule 5	19,750	19,750	39,500
Fire and Liability Insurance - Schedule 7	10,380	10,380	20,760
Depreciation Equipment - Schedule 6	41,940	41,940	83,880
Depreciation Buildings - Schedule 6	4,980	4,980	9,960
Subtotal	77,050	77,050	154,100
Operating Cost	519,235	965,421	1,853,842
<u>General Overhead Expense</u>			
Administrative Expense - Schedule 5	23,500	23,500	47,000
Sales Expense at 4% of Sales	29,754	53,085	106,170
Interest Expense 7% of (1,161,300)	37,482	46,242	92,484
Subtotal	90,736	122,827	245,654
<u>Total Cost</u>	609,971	1,088,248	2,099,496
Units (1000 sq. ft.)	1,583	3,166	6,332
Cost per 1000 sq. ft. ²	385	344	333
<u>Sales @ 18% profit before taxes</u>	743,867	1,327,132	2,654,264
Sales price per 1000 sq. ft.	470	419	419

DOMSUIZA
Plywood
Computation of Estimated Sales Price

Exhibit F

ric tons

	Operating Level			
	1,667 tons year	3,333 tons year	6,667 tons year	10,000 tons year
	RD\$151,985	RD\$ 303,970	RD\$ 607,940	RD\$ 912,000
	190,000	380,001	760,004	1,140,000
	<u>380,000</u>	<u>76,000</u>	<u>152,000</u>	<u>228,000</u>
	379,985	759,971	1,519,944	2,280,000
	22,950	45,900	91,800	114,750
tion) - Schedule 2	20,650	41,300	82,600	103,250
eneer) - Schedule 3	6,666	13,333	26,667	40,000
ous Expenses	<u>6,334</u>	<u>12,667</u>	<u>23,333</u>	<u>35,000</u>
	56,600	117,200	234,400	293,000
	5,600	11,200	22,400	28,000
	19,750	19,750	19,750	19,750
- Schedule 7	10,380	10,380	10,380	10,380
chedule 6	41,940	41,940	41,940	41,940
chedule 6	<u>4,980</u>	<u>4,980</u>	<u>4,980</u>	<u>4,980</u>
	77,050	77,050	77,050	77,050
	<u>519,235</u>	<u>965,421</u>	<u>1,853,794</u>	<u>2,678,050</u>
chedule 5	23,500	23,500	23,500	23,500
	29,754	53,085	99,542	142,709
(1,300)	<u>37,482</u>	<u>46,242</u>	<u>63,767</u>	<u>81,291</u>
	90,736	122,827	186,809	247,500
	<u>609,971</u>	<u>1,088,248</u>	<u>2,040,603</u>	<u>2,925,550</u>
	1,583	3,166	6,333	9,500
	385	344	322	308
	743,867	1,327,132	2,488,540	2,567,745
	470	419	393	376

Exhibit F
Plywood: Projected
Costs and Sales Price

C-925



82.10.28

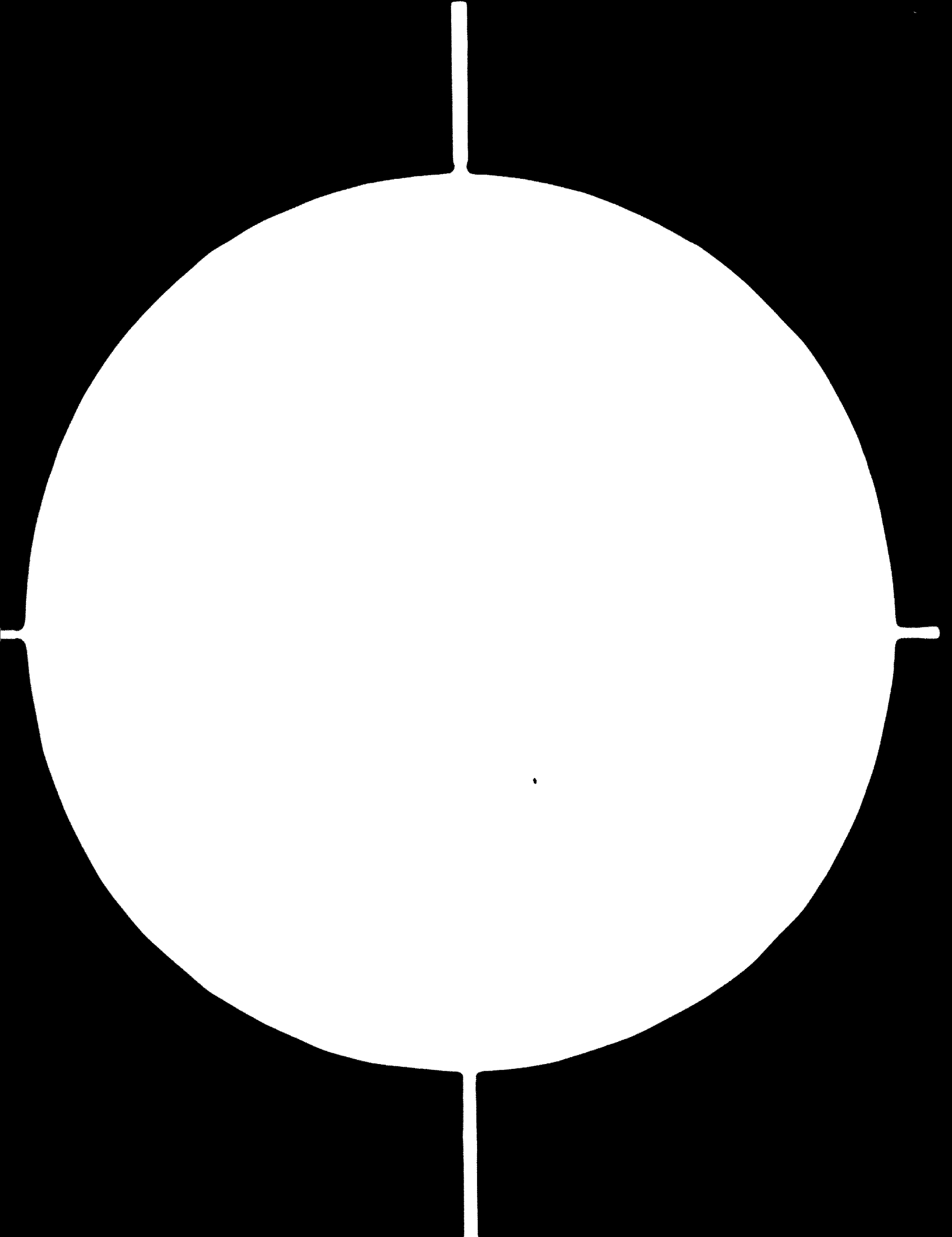


Exhibit G

DOMSUIZA
Veneer for Export Market*
Computation of Estimated Sales Price

Annual production - 8,000 M bd. ft. logs processed
- 64,000 M sq. ft. 1/16" veneer produced
- two shifts - 16 hours/dry - 250 days/year

Annually

Raw Material

Log Cost - Schedule 1 RD\$ 960,000

Operating Expenses

Direct Labor - Schedule 2 124,250

Supplies - Schedule 3 40,000

Contingencies and Miscellaneous 35,000

Subtotal 199,250

Power - Schedule 3

10,500

Fixed Overhead

Indirect Labor - Schedule 4 13,500

Fire and Liability Insurance - Schedule 6 6,810

Depreciation Equipment - Schedule 5 18,960

Depreciation Buildings - Schedule 5 1,870

Subtotal 41,140

Operating Cost

Total 1,210,890

General Overhead Expense

Administrative Expense - Schedule 4 21,000

Sales Expense @ 4% of Sales 65,173

Interest Expense - Schedule 6 39,000

Subtotal 125,173

Total Cost

1,326,076

Units 64,000

Cost per 1000 sq. ft. \$25/1000

Sales @ 18% profit 1,617,160

Sales price per 1000 sq. ft. \$21/1000

* Because domestic markets for veneer are non-existent, this exhibit has been calculated on the basis of full production for the export market only.

DOMSUIZA
Schedule of Raw Materials
For the Production of Veneer

Production Rate and Parameters

All schedules are calculated at full production capacity.
32 M bd. feet of logs processed per day
Veneer line operates two shifts per day
Daily capacity (basis 1/16" veneer) = 256 M sq. ft.
Annual capacity (basis 1/16" veneer) - 64,000 M sq. ft.
Driers operate 24 hours per day

Log Requirements

Quantity of veneer produced (50% yield)
= (32) (16) (.5)
= 256 M sq. ft/day
Quantity of logs processed
= 32 M bd. ft.
Unit Price = RD\$120 per M bd. ft. (Doyle Scale)
Log Cost = (120) (32) = RD\$3840/day
= RD\$960,000/yr.

Exhibit G
Schedule 2

DOMSUIZA
Schedule of Direct Labor
For Producing Veneer

<u>Position</u>	<u>Men</u>	<u>Shifts</u>	<u>Men Per Day</u>	<u>Rate Per Day</u>	<u>Cost Per Day RD\$</u>
Truck Driver (dock to plant)	1	2	2	RD\$ 7	RD\$ 14
Common Laborers (log loaders and unloaders)	4	2	8	4	32
In and Out of Vats	4	2	8	4	32
Log Crane Opera- tor	1	2	2	8	16
Lathe Charger	2	2	4	8	32
Lathe Operator	1	2	2	10	20
Reel Operators	2	2	4	8	32
Green Sorting	3	2	6	7	42
Drier Feeders	3	3	9	5	45
Drier Off Bearing	3	3	9	5	45
Clean Up Man	1	3	3	4	12
Guard	1	3	3	6	18
Foreman	1	3	3	19	<u>57</u>
Subtotal					RD\$397
Fringe benefits, vacations, etc. @ 25%					<u>100</u>
Total direct labor/day					RD\$497
Annual Cost					RD\$124,250

DOMSUIZA
Schedule of Supplies, Power and
Fuel Requirements for Producing Veneer

Supplies

Experience with similar facilities indicates that production supplies will include the following:

Oil	Lathe Knives
Grease	Bearings and Belts
Saw Blades	Miscellaneous
Cost	RD\$160/day
Annual Cost	RD\$40,000/yr.

Power

Production of veneer requires 15% of the total plant power as calculated in Schedule 6 of Exhibit E.

Cost	=	(RD\$5919 (.15) = 875/mo.
Annual Cost	=	RD\$10,500

Fuel

From experience at similar plywood mills it is expected that the trim and miscellaneous waste will supply ample fuel for process heating. (No heat required in building)

Exhibit G
Schedule 4

DOMSUIZA
Schedule of Indirect Labor and
Administrative Expense for Veneer Production

<u>Indirect Labor</u>	<u>Cost Per Day</u>
Manager (50% allocation)	RD\$19
Superintendent	<u>24</u>
Sub-total	RD\$43
Fringe Benefits 29%	<u>11</u>
Total	RD\$54/day
Annual Cost	RD\$13,500
<u>Administrative Expenses</u>	
Manager (50% allocation)	RD\$19
Accountant	21
Clerks (3) at RD\$9 each	<u>27</u>
Sub-total	RD\$67
Fringe Benefits at 29%	<u>17</u>
Total	RD\$84/day
Annual Cost	RD\$21,000

Exhibit G
Schedule 5

DOMSUIZA
Schedule of Depreciation
of Buildings and Equipment
for Producing Veneer

Buildings

Residual Value	RD\$ 12,750
Missing Equipment + Restoration	<u>24,600</u>
Total	RD\$ 37,350
Depreciation 20 years, Straight Line	= 1,870/yr.

Equipment

Residual Value	RD\$ 50,650
Restoration + Missing Equipment	<u>139,000</u>
Total	RD\$189,650
Depreciation 10 years, Straight Line	= \$ 18,960/yr.
Total Buildings, Equipment and Improve- ments	= \$227,000

Exhibit G
Schedule 6

DOMSUIZA
Schedule of Working Capital
New Capital Requirements
Interest Expense and Insurance Expense
for Producing Veneer

Estimate of
Average Working Capital

Raw Material Inventory (logs - 2 mo.)	RD\$160,000
Accounts Receivable Financing (2 mo.)	200,231
Miscellaneous	<u>30,000</u>
	RD\$390,231

New Capital Requirements

Building Restoration + Missing Equipment	RD\$ 24,600(Schedule 5)
Equipment Restoration + Missing Equipment	139,000(Schedule 5)
Working Capital	<u>390,231</u>
Total New Capital	RD\$553,831
Interest Expense at 7%	RD\$ 39,000
Total - Buildings, Equipment and Improve- ments	227,000(Schedule 5)
Fire and Liability Insurance + Miscellaneous @ 3%	6,810

Cost/Benefit Analysis

The most important guidepost for judging the viability of Domsuiza is projected profitability. This will be developed in the section on Marketing.

There are, however, other criteria for judging the project. Here, production economics are discussed in the light of two other important criteria:

Local raw material usage: Development of industries using a predominance of inexpensive readily available local materials reduces the dependence on imports, saves foreign exchange, and tends to put the new venture on a sound competitive foundation.

Labor intensive production: The creation of jobs and development of skills for the local citizens are definitely desirable and put wages into the economy.

Raw Materials: Upon examining the breakdown of operating costs for each of the three products, it becomes evident that raw materials constitute the single most important factor in operating costs. This is graphically illustrated in Exhibit H. Raw materials represent 52 per cent of the operating cost for producing veneered bagasse board, 87 per cent for plywood and 80 per cent for veneer. Unfortunately, imported goods contribute over 80 per cent of the cost of these raw materials for veneered bagasse board, and 100 per cent of the cost for both plywood and veneer. The Domsuiza venture definitely does not produce intensive usage of local raw materials on the RD\$ basis.

Domsuiza is not close to the source of raw materials, and the transportation costs involved in bringing raw materials to the work site put Domsuiza at an immediate competitive disadvantage. Raw material costs and availability are beyond the control of Domsuiza; fluctuations in costs and availability of raw materials will have a pronounced effect on production. For instance, the price and supply of veneer logs are critical factors. Costs for each of the Domsuiza products are closely tied to the log supply and indications here regarding future price and availability are not encouraging.

An increasing number of South American countries are restricting log exports and the price trend for logs is decidedly upward.

Labor: Analysis of the operating cost for producing veneered bagasse board indicates that direct and indirect labor account for 23.2 per cent of the total. As developed later in the Marketing section, foreign markets are inaccessible to Domsuiza's veneered bagasse board principally because of the low market price levels at which Domsuiza cannot compete. Assuming that Domsuiza were to produce only for the Dominican market at a one-shift capacity (2,500 metric tons per year), the operation would require approximately 75 employees. Gross wages and salaries would amount approximately to RD\$167,000.

The operating cost total for producing plywood shows that labor accounts for only 7.0 per cent while imported raw materials account for 86.6 per cent. These operating costs produce sales prices that are not competitive in foreign markets. Producing for the local market, the plywood plant would operate at 16 per cent of capacity and would require less than 30 persons. These employees would earn about RD\$76,000 annually.

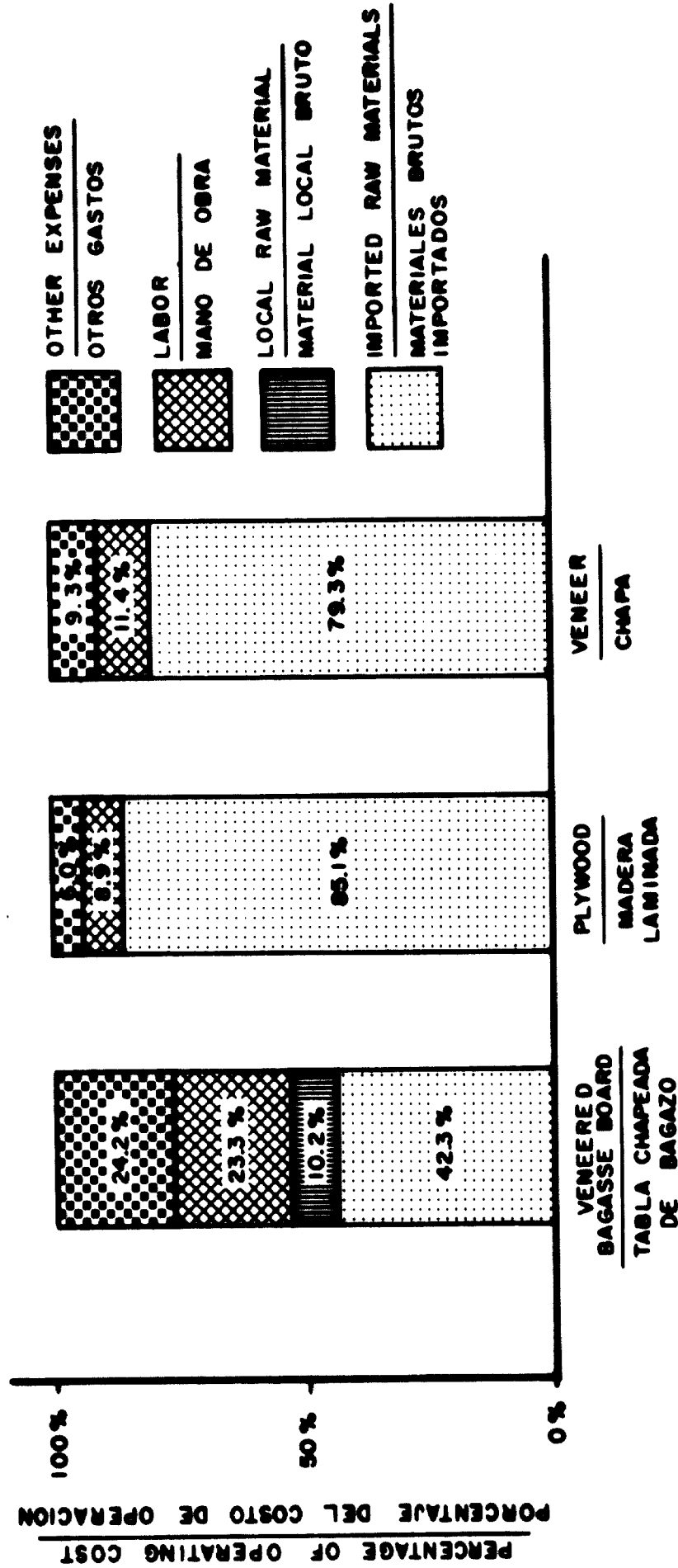
Veneer production, like plywood, also requires that all raw materials be imported. In the production of veneer, labor accounts for only 10.7 per cent of operating cost. Raw materials account for 79.9 per cent of operating cost. Local demand for the product is negligible and the operating cost of RD\$20 per 1,000 square feet of 1/16" veneer is not competitive in world markets. Thus, the venture could not be mobilized on the basis of producing and selling veneer.

To summarize, the costs of those benefits which would accrue to the country if Domsuiza were mobilized must be weighed in light of the already huge financing requirements (in excess of RD\$1,500,000) necessary to revitalize and operate the plant. If Domsuiza is set up to produce the veneered bagasse board which domestic markets will absorb, about 75 men will be employed and they will earn RD\$167,000 annually. The government, however, will lose over RD\$300,000 annually in import duties now levied on the products Domsuiza will replace. Imported raw materials will require over RD\$250,000 in foreign exchange each year. Plywood

EXHIBIT H
DOMSUIZA

ANALYSIS OF OPERATING COST FOR PRODUCING
VENEERED BAGASSE BOARD, PLYWOOD & VENEER

ANALISIS DEL COSTO DE OPERACION
TABLA CHAPEADA DE BAGAZO, MADERA LAMINADA Y CHAPA



SOURCE: DATA DEVELOPED IN EXHIBITS E, F & G.

FUENTE: INFORMACION OBTENIDA EN EXHIBITS E, F Y G.

DOMSUIZA
Schedule of Raw Materials
To Produce Plywood

Production Rate and Parameters

All schedules are calculated at full production capacity
Daily capacity (3/4", 7 ply basis) = 38 M sq. ft.
Annual capacity (3/4", 7 ply basis) = 9500 M sq. ft.
Driers operate 24 hours per day.
Main plant operates two shifts per day.
Finished glued plywood is an assembly of two 1/10" faces,
two 1/10" centers, and three 1/6" crossbands.

Log Requirements

Veneer yield = 50%

1/10" Veneer

Quantity 1/10" veneer required/day
= 4 veneers x 38 M sq. ft/day
= 152 M sq. ft. /day
Quantity Logs to produce 152 M sq. ft. 1/10" veneered
50% yield
= $\frac{152}{10} \times 2$
= 30.4 M bd. ft.
Unit Price = RD\$120/1000 bd. ft. Doyle Scale
Log Cost = (120) (30.4) = 3,648/day
= RD\$912,000/yr.

production produces the same kind of unfavorable trade off. Domsuiza could produce and satisfy its projected share of the domestic plywood market by employing roughly 30 men at an annual wage of RD\$76,000. Duties lost on imported plywoods would cost the government over RD\$200,000 each year, and production would require roughly RD\$380,000 of raw material imports.

Foreign exchange benefits are held to a bare minimum. The high percentage of raw materials that must be imported to produce bagasse board, plywood, or veneer, and the necessity to import oil as a fuel replacement for bagasse at the Ozama and Barahona sugar mills are the determining factors here.

MARKETING

A marketing analysis of the Domsuiza complex must concern itself with the three products which the plant can produce utilizing present equipment. These products are:

Veneered Bagasse Board: This is made by facing a compressed particleboard with a thin wooden veneer on both sides. It was intended for use primarily as a building material; also as furniture manufacturing stock, and smaller household goods such as trays and cases.

This panel board was to have been the chief Domsuiza product. For this reason the most intensive survey work has been done on this product.

Plywood: Plywood is a cross banded assembly made of layers of veneer. The grain of each layer is set at right angles to that of the preceding one. Although there is appreciable demand for plywood in construction materials and furniture stock in the Dominican Republic, Domsuiza's planners intended to supplant this market with veneered bagasse board, rather than by producing plywood.

Veneer: Veneer is a thin sheet of wood peeled from logs by a rotary cutter. There was no intention of marketing Domsuiza veneer directly. The veneer line was to have supplied facing for the bagasse board cores.

To discuss marketing further, each product has been analyzed in so far as possible with regard to:

Product Evaluation - A produce rating on the basis of quality and competitiveness in its intended markets.

Domestic Market - An analysis of local demand, related pricing problems, and possible penetration.

Export Market - An analysis of international demand, related pricing problems, and possible penetration.

Veneered Bagasse Board

Product Evaluation: The veneered bagasse board does not measure up to the qualitative standards which the markets of the Dominican Republic set for similar products. An early prospectus for Domsuiza made many claims for the product that would be difficult to fulfill:

"Cane Bagasse is an excellent construction material, and the qualities of the sheets thus obtained are far superior to that of lumber."

"(It is) of long duration: it is estimated that a house built of this material, under adequate condition of preservation should last more than 50 years."

"(It is) highly insulating for heat and sound."

"Easy to work."

"Low specific weight which does not interfere with its high resistance, contributing greatly to easy handling and transportation."

"As a fire resistant material it is much superior to wood "

"Very economic, because of the low price of the raw material, and of its processing "

It was found that dealers in the market have little belief in these speculative claims.

First, the manufacturing process for producing the bagasse particleboard cores used at Domsuiza (the extrusion process) limits the product. Because their extruder does not lend itself well to production of such desirable thicknesses as 1-1/2", and because it is not practical to produce thicknesses less than 1/2", the veneered bagasse board cannot be sold in the variety of thicknesses demanded by the market. Also, extruded bagasse board is very weak; as a result, it must be faced on both sides with veneer.

Second, because of the costs entailed in veneering the bagasse board, procuring raw materials, and processing, the product is not "very economic". This has been more thoroughly discussed in the preceding sections on Raw Materials and Operating Costs.

Third, it is difficult to conclude that veneered bagasse boards will have significant fire resistant qualities, without the addition of expensive fireproofing chemicals in the production process, when bagasse is currently being used as a fuel in the boilers of Dominican sugar refineries. Dominicans have had previous fire experience with housing built of lignocellulosic materials; several years ago a large barracks for sugar workers sustained severe fire damage.

Fourth, although the low specific weight of veneered bagasse board does contribute to ease of handling, this same property, in combination with the low value of the product, may create an uneconomical shipping cargo. This could detract from the feasibility of developing export markets.

Fifth, veneered bagasse board is not as easy to work as standard particleboard. Bagasse board has a tendency to split, or splinter when sawn. Because of residual

sand and dirt not filtered out in production, the boards have a reputation for dulling tools. They cannot be routed or grooved to any substantial depth because of the veneer layers, and the soft cores have a sloppy appearance unless an edge strip is applied. For a number of applications they have poor nail holding characteristics.

Sixth, concerning the high insulating qualities and long duration of bagasse board, it should be pointed out that in the Dominican Republic today, the preferred building material is concrete. Veneered bagasse board can hardly compete in these areas with concrete.

Finally, there is no evidence that veneered bagasse board is generally stronger than wood. Extruded bagasse boards have to be overlaid to meet minimum standards. The bagasse board is extremely water absorbant, and if exposed to moisture may expand and possibly buckle. Evidence of this is readily observable in one section of the severely decayed bagasse board roof at the Domsuiza plant.

Domestic Market: Traditionally, the domestic market for Domsuiza veneered bagasse board has been identified with the national need for low income housing. Not only was Domsuiza to have provided a new low cost building material, but plans were laid to build prefabricated homes at the plant as well.

Two methods have been used of approximating the domestic market for veneered bagasse board. First, specific market sectors which seemed most susceptible to penetration by the Domsuiza product have been examined. Considering product quality and possible pricing strategies wherever necessary, we estimated marketing potential and general feasibility. Second, we have examined the overall profile of the market by looking at the annual

consumption of similar and competitive products. Again, considering the comparative strengths and weaknesses of the product, we have estimated the degree of penetration and market share that could be expected.

Market Sectors

Prefabricated Housing: Those who planned Dom-
suiza did not under-estimate the Dominican Re-
public's need for low cost housing. Most economic
forecasts for the next several years predict a boom
in residential construction. Given this need, it is
more than likely that the Dominican Government
will enter the construction business for under-
privileged segments of the general public or, as
it has upon occasion, for particular sections of the
work force.

Despite this, it is unlikely that this new construc-
tion represents a significant market for veneered
bagasse board. The quality of bagasse board hous-
ing, and the high cost of producing it does not pro-
vide a basis for challenging competitive products.

Before discussing the specific role of veneered ba-
gasse board in this particular market sector, cer-
tain basic requirements for housing and construc-
tion must be examined:

The Dominican Republic enjoys a semi-
tropical climate with temperatures rang-
ing between 65 and 95 degrees Fahrenheit.
Rainfall averages around 55 inches per
year. Coolness and water resistance are
therefore definitive factors in housing ma-
terials. Likewise, control of damp rot and
dry rot are important; the vermin resistant
qualities of any building material are also
important.

Hurricanes cause substantial damage in the
Dominican Republic. Wind resistance and

general strength are other key factors in the selection of building materials.

Field research indicates that prospective housing consumers, especially those concerned with housing the poor and the sugar workers, place high priority on the fire retardant qualities of building materials.

Finally, the price of housing must be low and maintenance costs must compare favorably with that of existing structures.

Because of its superiority in fulfilling these requirements, Dominicans prefer building with cement. To the extent that they can be measured, trends show an increasing preference for concrete building products rather than wood based materials.

These housing requirements represent serious difficulties if bagasse board is to be introduced as a major building material; the Domsuiza product does not compare favorably with concrete in any of these categories. Generally, consumer resistance will be based on the following:

Bagasse housing is warmer; much less water resistant; more susceptible to damp rot, dry rot, and vermin than concrete.

Dominicans have had previous experience with housing built from lignocellulosic materials. As previously mentioned, a large barracks built with such materials sustained fire damage and proved expensive to maintain.

There is a prestige factor of some importance here. The nationwide preference is for the cement, stone, and stucco housing prevalent in higher priced homes. As a matter of status the low income home owner wants this for himself.

Veneered bagasse board cannot be expected to last as long as stone or cement. This means that the long term mortgages so crucial to any low cost housing program might well outlast the houses themselves. For instance: the sugar authorities offer low cost housing to field workers at a monthly rental of RD\$5. At the end of five years, the accumulated amount is considered a down payment if the worker wants to buy the house. He continues to pay on the same monthly basis until the house is paid for. Assuming a total cost of RD\$1 000, the man pays for his house in 17 years. Unlike the bagasse board houses, cement dwellings would at this point have an almost indefinite useful life. The former could not be expected to last as long.

Finally, the bagasse board houses cannot be priced competitively. The preferred cement houses are being offered at attractive prices, i.e. RD\$1,300 per unit with 42 square meters of floor space. To overcome the consumer resistance, and inferior quality mentioned above, houses constructed with the Domsuiza product must be priced considerably lower than this. But because of the high cost of bagasse, logs, and other imported raw materials, Domsuiza's best price for a prefabricated house of comparable dimensions, standards and design would be over RD\$2,100.

To conclude, prefabricated housing of veneered bagasse board:

Can be neither built nor maintained as inexpensively as cement houses.

Is not as weather or rot resistant.

Will encounter significant consumer resistance.

For all these reasons, it cannot be claimed that bagasse board has a major role in the country's low cost housing effort. Domsuisa cannot be made a viable operation if it must depend on this sector of the market.

Cores

Cores which form the center stock of plywood panels, table tennis tops, and dinette table tops represent a possible market for the Domsuisa product. The most common use for cores is in the production of doors.

If used for door cores, the four foot Domsuisa panels must be cut down to "standard" widths, and this creates a waste problem. Here is a tabular analysis of these standards and the waste incurred by the production of cores from 4' panels.

<u>Core Width</u>	<u>Wastage (Based on the 4' Domsuisa Board)</u>
24"	None
26"	One 22" blank
28"	One 20" blank
30"	One 18" blank

It is because of the extensive overage shown here that core manufacturers favor the 5' panels which Domsuisa cannot produce. The 5' board yields waste free cores in four marketable combinations of widths (24" x 36"; 26" x 34", 28" x 32", 30" x 30").

Finding a new market for the overage produced by the Domsuisa boards would be difficult and expensive. Currently, the only industry in the Dominican Republic which might use this overage is furniture manufacturing. The cost of further cutting to required sizes, marketing and transporting it to furniture manufacturers would be high.

To conclude, there is only a limited market for cores in the Dominican Republic. The Domsuiza product line could not be adapted to core production without creating a waste problem. Marketing this waste would require further production expenses. There is considerable resistance from both potential core consumers, and furniture manufacturers to bagasse board.

We feel that this combination of facts and attitudes precludes significant core production as a feasible operation for the Domsuiza plant.

Furniture

The 4' x 8' veneered bagasse board panels might be produced exclusively for consumption by furniture makers, but a series of factors militate against this.

The market represented by the furniture industry is small and geographically scattered. Much of the furniture is custom built, the use of plywood, wallboard, and particleboard is limited. There is no veneered bagasse board being used at all, and to the extent that they use this kind of product, furniture manufacturers expressed a decided preference for the unveneered hardboards which are now imported from Sweden.

Only an entirely unprofitable pricing strategy would capture a share of this market for the Domsuiza product; the production of raw materials for the furniture industry cannot be considered a feasible operation for Domsuiza.

Overall Profile

Because there is no panel board produced in the Dominican Republic, import statistics for this type of product provide a fair evaluation of current markets. Such statistics for the ten year

1/6" Veneer

Quantity 1/6" veneer required/day
= 3 veneers x 38 M sq. ft./day
= 114 M sq. ft./day
Quantity Logs to produce 114 M sq. ft. 1/6" veneer ●
50% yield
= $\frac{114}{6} \times 2 = 38$ M bd. ft.
Unit Price = RD\$120/100 bd. ft. Doyle Scale
Log Cost = 120 (38) = RD\$4560/day
= RD\$1,140,000/yr.

Glue - for veneering

Area for gluing - seven ply requires six glue lines.
= 38 M x 6 = 278
Unit Cost = RD\$4/M sq. ft.
Cost = 4 x 278 = RD\$912/day
= RD\$228,000/yr.

period 1957-1967 are included below as Exhibit I. It should be clearly understood that these figures represent imports for all kinds of panel board (wallboard, particleboard, veneered board, hard board). Domsuiza could not produce the range of products included in this tabulation. Countries of origin include Japan, Spain, Portugal, Honduras, Taiwan, and the United States.

Market Share

When the plant is operating at its full three shift capacity, the cost to Domsuiza of producing M square feet of 3/4" standard veneered bagasse board is RD\$214. With an 18 per cent profit, dealers cost could be RD\$262/M square feet.

Because of the product limitations and consumer resistance already mentioned, the Domsuiza boards will have to be sold for less than the going prices for competitive products to capture any significant share of the market at all. If discounted by 10 per cent (off going panel board rates) it is estimated that Domsuiza would be fortunate to achieve a 20 per cent penetration of the market or a volume demand for 1,760 metric tons of veneered bagasse board per year. A 15 per cent discount would result at the very most in 30 per cent of the market - 2,638 metric tons annually. Product characteristics militate strongly against further market penetration even with greater discounts. The Domsuiza board cannot compete with imported boards for many uses.

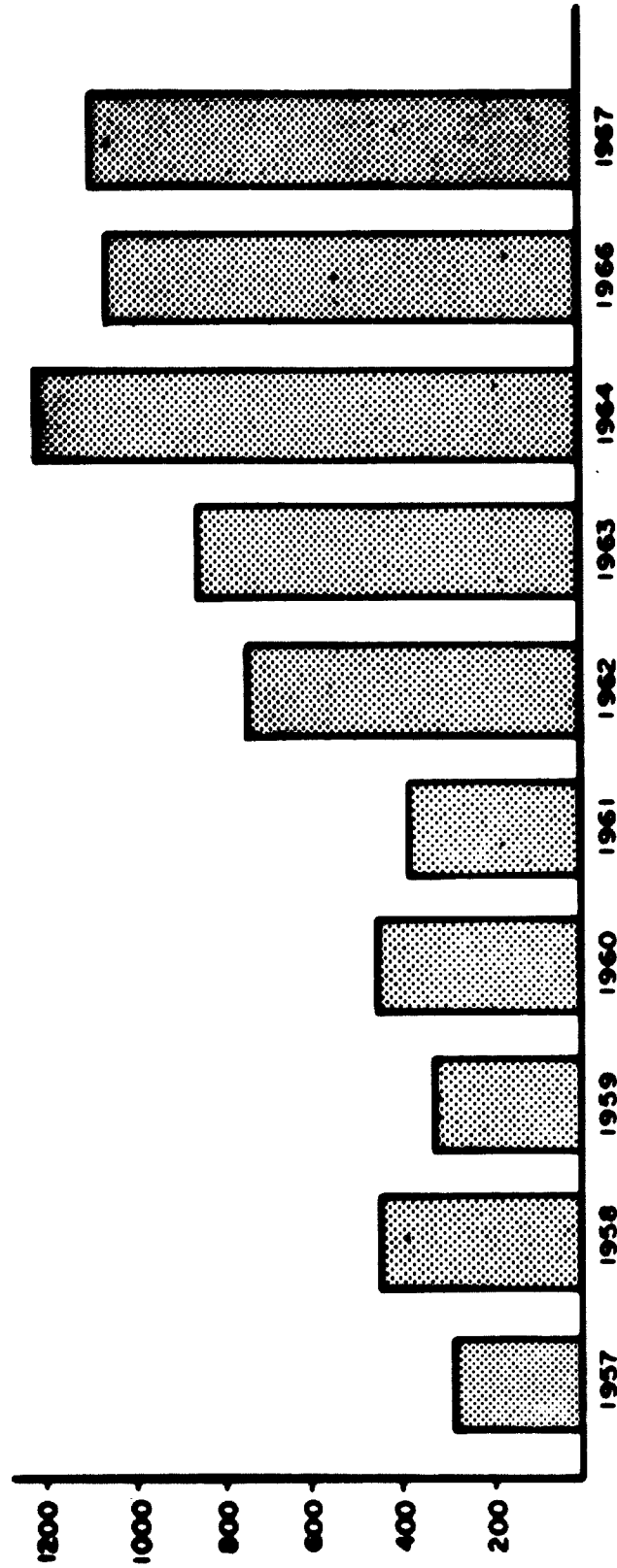
Demand on this scale represents only a small portion of plant capacity. Production of 1,759 metric tons requires only 23 per cent of plant capacity; for 2,638 metric tons 35 per cent is required. At these low operating levels,

EXHIBIT I

**DOMINICAN REPUBLIC
PANEL BOARD IMPORTS***

**REPUBLICA DOMINICANA
IMPORTACIONES DE PANELES***

**VALUE RD\$
(000)**
**VALOR EN RD\$
(000)**



* BECAUSE THE CIVIL WAR INTERRUPTED NORMAL IMPORT PATTERNS, FIGURES FOR 1965 HAVE BEEN OMITTED.
SOURCE: COMERCIO EXTERIOR DE LA REPUBLICA DOMINICANA.

* LAS CIFRAS PARA 1965 SE HAN OMITIDO DEBIDO A QUE LA GUERRA CIVIL INTERRUPIO EL RITMO NORMAL DE LAS IMPORTACIONES.
FUENTE: COMERCIO EXTERIOR DE LA REPUBLICA DOMINICANA.

EXHIBIT J
DOMSUIZA

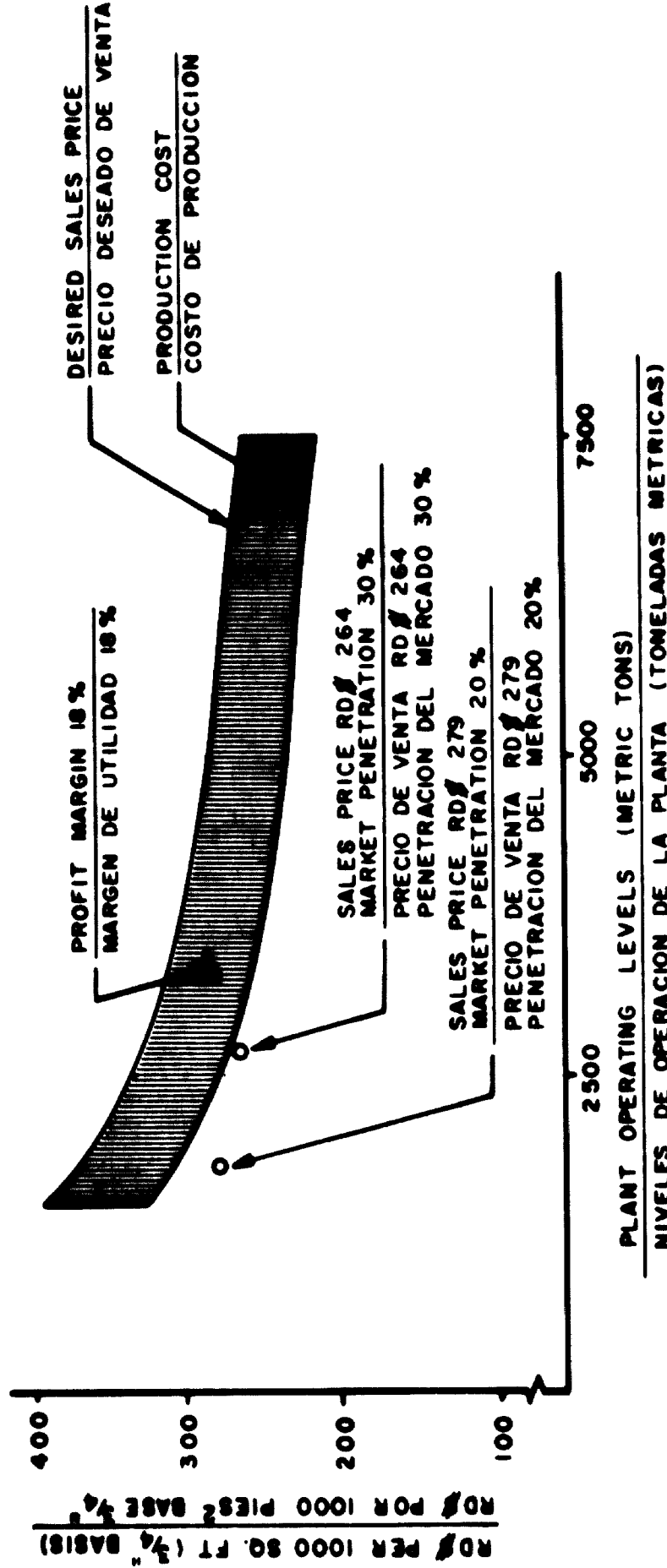
VENEERED BAGASSE BOARD

PRODUCTION COSTS AND PRICING AT VARIOUS

OPERATING LEVELS AND PROJECTED LOCAL MARKET PENETRATION

TABLA DE BAGAZO CHAPEADA

COSTOS DE PRODUCCION Y PRECIOS A DIVERSOS NIVELES DE OPERACION Y PENETRACION DEL MERCADO LOCAL PROTEGIDO



SOURCE: DATA DEVELOPED IN EXHIBIT E.

FUENTE: INFORMACION OBTENIDA EN EXHIBIT E.

production costs are, of course, much higher. The relationship between price levels, market penetration levels and plant capacity is shown graphically in Exhibit J. It is clear that possible penetration levels do not provide large enough markets for Domsuiza to operate profitably. In each case, low operating levels create production costs slightly greater than the sales prices required for market penetration. Domsuiza cannot operate on this basis.

Export Market

Although the United States and Europe seem to offer potential foreign markets for Domsuiza there are actually almost no export markets for veneered bagasse board. Product limitations have created a poor industry attitude toward extruded particleboard, particularly in the nearby United States markets. The high cost of raw materials, production and shipping (the consequence of a high cubage/low dollar value ratio) preclude competitive international prices for Domsuiza's boards. Nearby nations impose tariffs - the 16 per cent duty levied by the United States is an example - which further detract from Domsuiza's competitiveness. Finally, Domsuiza's veneered bagasse board does not possess any unique properties that might give it an entry into those markets.

A comparison of price levels for international particleboard with Domsuiza's production costs is attached as Exhibit K. The export market picture for veneered bagasse board is also shown. At all operating levels it is clear that it would not be profitable for Domsuiza to enter the foreign market.

Plywood

Product Evaluation

Although it was not originally intended to do so, Domsuiza is technically capable of producing a complete line

of competitive plywoods. This would include the full range of quality and thicknesses (3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"). The only constraints on product quality and versatility are those resulting from the current disrepair or lack of machinery.

Domestic Market

There is a small, but growing demand for plywood in the Dominican Republic. Import figures for the ten-year period between 1957 and 1967 illustrate this (Exhibit L below).

Pricing policies on Domsuiza plywoods need only be related to the costs of raw materials and processing. There is no necessity here to discount sales prices in order to market an inferior product.

Given current raw material costs, Domsuiza could produce a standard grade 3/4" plywood for RD\$180 per M square feet operating at full production. Delivered to distributors with a 20 per cent markup it could be sold for RD\$216 per M square feet. The price for competitive plywood in the Dominican market today is RD\$552 per M square feet. Under these circumstances it is not unlikely that Domsuiza could capture 90 per cent of the local market or an annual production of 1,180 metric tons. This demand requires only 12 per cent of the plant's production capacity of 10,000 metric tons. Clearly, demand on this scale does not justify the production of plywood at Domsuiza. As with veneered bagasse board this level of production would raise costs - and prices - considerably.

Export Market

Domsuiza plywoods could not be sold internationally at prices which would be competitive. Plywood prices in the world market are extremely volatile, fluctuating widely in response to many factors. In the Western Hemisphere, trends for plywood prices are set in the

VENEERED BAGASSE BOARD
SALES PROFITABILITY IN EXPORT MARKETS

vs

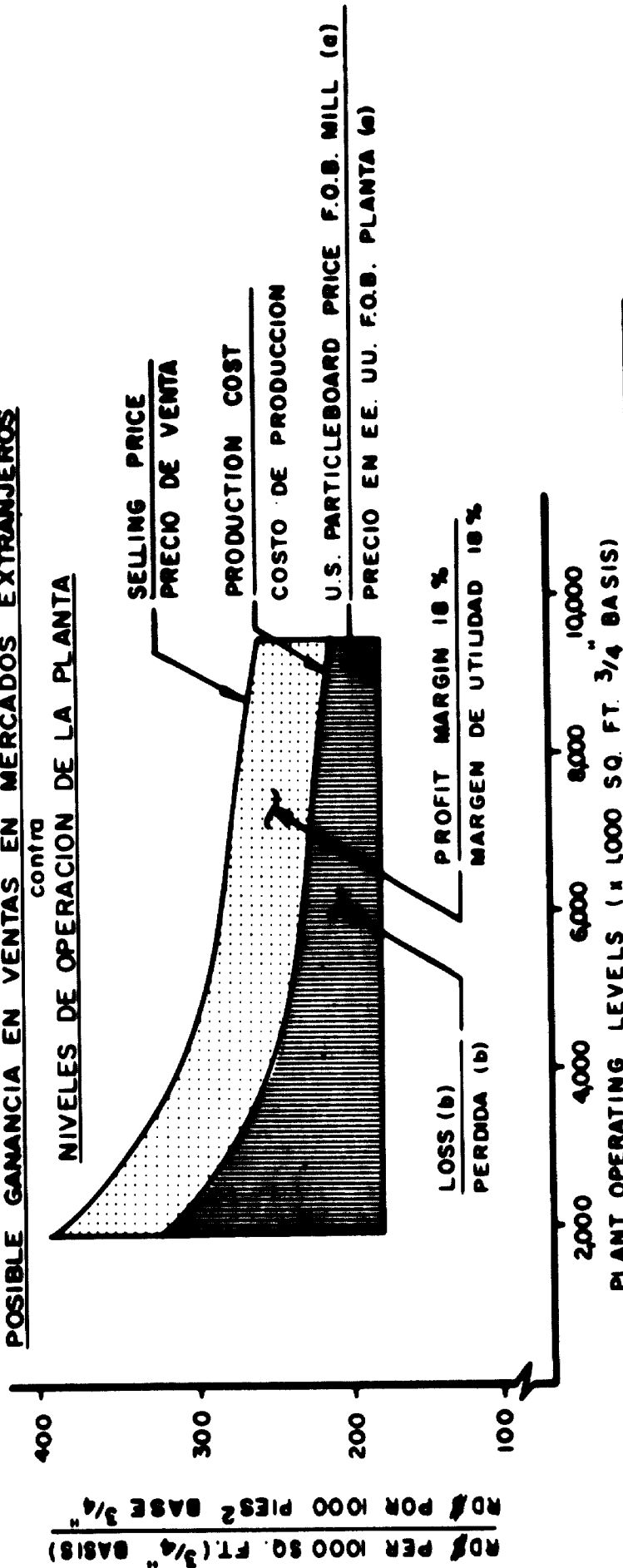
PLANT OPERATING LEVELS

TABLA CHAPEADA DE BAGAZO

POSIBLE GANANCIA EN VENTAS EN MERCADOS EXTRANJEROS

contra

NIVELES DE OPERACION DE LA PLANTA



PLANT OPERATING LEVELS (x 1,000 SQ. FT. 3/4" BASIS)

NIVELES DE OPERACION DE LA PLANTA (POR 1,000 PIES² BASE 3/4")

- (a) U.S. PRICES ARE TYPICALLY HIGHER THAN WORLD PRICES. DOMSUIZA F.O.B. MILL PRICE NOT COMPETITIVE.
- (b) DOMSUIZA LOSS ON EXPORTS BEFORE DUTIES AND FREIGHT ARE ADDED. U.S. FREIGHT CHARGES TO OTHER POTENTIAL MARKETS ARE EQUAL TO OR SMALLER THAN DOMSUIZAS.

SOURCE: DATA DEVELOPED IN EXHIBIT E.

(a) LOS PRECIOS EN EE. UU. SON TÍPICAMENTE MÁS ALTOS QUE LOS PRECIOS MUNDIALES. LOS PRECIOS DE DOMSUIZA F.O.B. PLANTA NO SON DE COMPETENCIA.
(b) PERDIDA DE DOMSUIZA EN EXPORTACIONES ANTES DE AÑADIR LOS DERECHOS Y FLETE LOS CARGOS POR FLETE DE EE. UU. A OTROS MERCADOS POSIBLES SON IGUALES O MENORES QUE LOS DE DOMSUIZA.

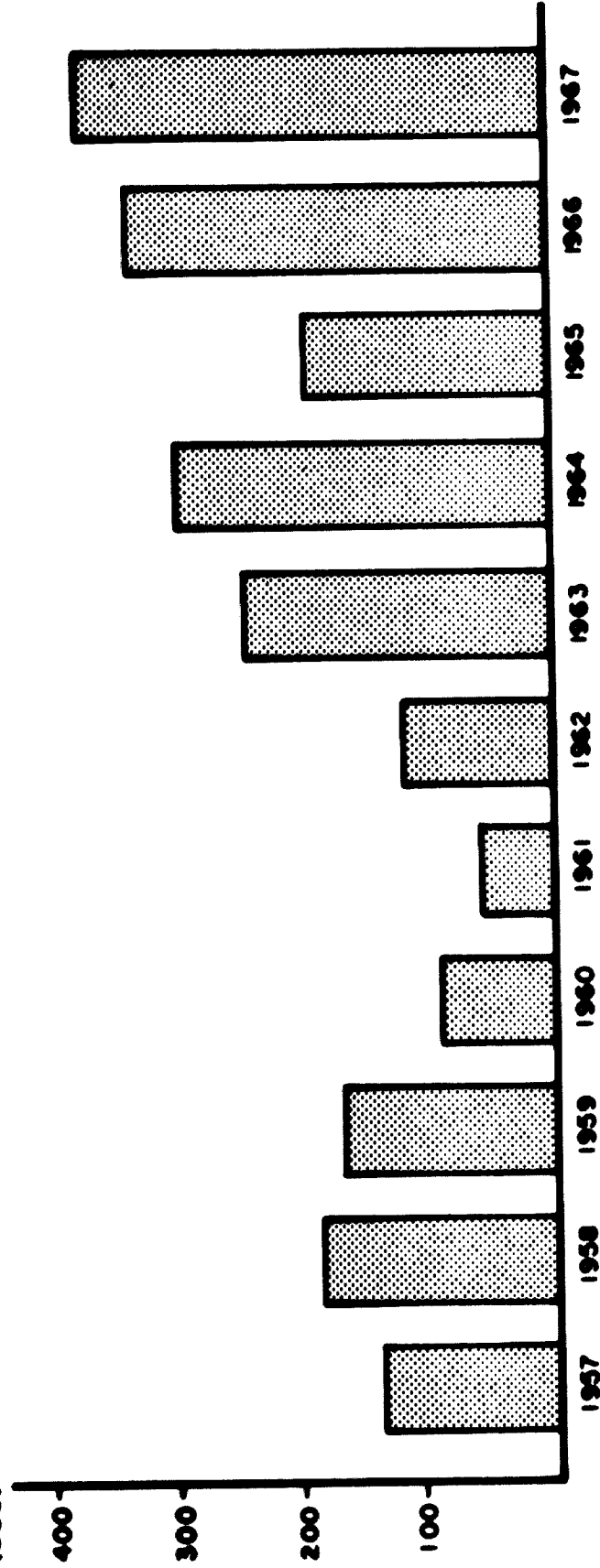
FUENTE: INFORMACION OBTENIDA DE EXHIBIT E.

EXHIBIT L

DOMINICAN REPUBLIC
PLYWOOD IMPORTS

REPUBLICA DOMINICANA
IMPORTACIONES DE MADERA LAMINADA

VALUE RD\$
(000)
VALOR EM RD\$
(000)



SOURCE: COMERCIO EXTERIOR DE LA REPUBLICA DOMINICANA.

FUENTE: COMERCIO EXTERIOR DE LA REPUBLICA DOMINICANA.

United States. During the early part of 1969 plywood prices in the United States were at an all time high of RD\$358 per M square feet (3/4" standard grade exterior) - almost triple the price of a year ago. A poll of industry officials in the United States indicates that sufficient plywood plant capacity is now on line to force future plywood prices back to more normal levels of RD\$150 per M square feet, and in fact prices have already dropped within the past three months more than RD\$100 from earlier highs, and are presently at RD\$253 per M square feet.

Domsuiza could manufacture an equivalent plywood for RD\$296 per M square feet. Allowing for a profit margin of 15 per cent this means a price of RD\$340 per M square feet f.o.b. Domsuiza. Delivery to the United States would incur the following costs:

	<u>Cost</u> <u>Per M Square Feet</u>
Wharfage	RD\$ 6
Shipping	42
Commission	11
U. S. Custom (16%)	<u>35</u>
<u>Total</u>	RD\$94

Added to base price, this means a price of RD\$436 per board foot delivered to the United States distributor. As can be seen in Exhibit M below, the Domsuiza price is way out of line when measured against price setting prices in the United States market. The high costs of importing all raw materials and of producing and shipping the product exclude Domsuiza plywoods from profitably entering international markets.

Veneer

Product Evaluation

Because veneer was to have been an essential component of the chief Domsuiza product there is little doubt

that the plant was set up to produce a high quality veneer. Veneer is typically produced in thicknesses of 1/24", 1/20", 1/16", 1/10", 1/8" and 1/6". As with plywood, the only limitation on the quality of veneer which the Domsuiza plant is capable of producing results from the current disrepair or lack of equipment, and the technical training needed for operations.

Domestic Market

Within the Dominican Republic there is little market for wood veneer except when incorporated into other products. In the case of the original Domsuiza plant, it was to have reinforced the bagasse board cores. It has also been used as core material and facing for plywood, and as decorative facing on panels for walls and furniture. There are very few facilities in the Dominican Republic for utilizing veneer, even if it were locally produced. Consequently, there is no effective demand for this product.

Export Market

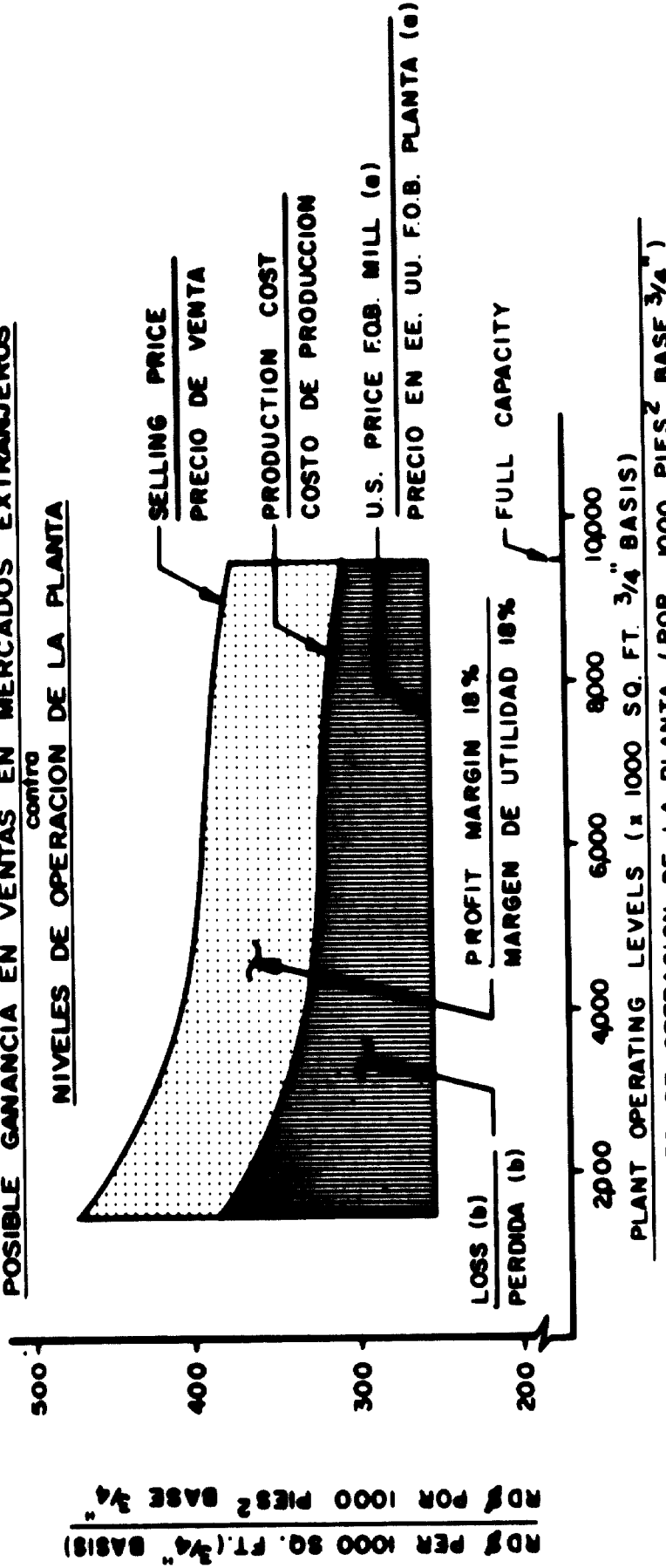
The United States represents a market for both core and face veneers, but the Domsuiza operation suffers from two competitive disadvantages here - transportation and tariffs.

Domsuiza would have to import logs for veneer production. A native Colombian species called Cativo seems best suited to this end, being in abundant supply and yielding a high percentage of veneer. Two United States companies: Pascagoula Veneer Company in Mississippi and the Bacon McMillan Company of Arkansas are presently importing Cativo logs for veneer production. However, the United States companies market their products without further transportation; Domsuiza veneer would have to be shipped east. On entry into the United States payment of the protective import duty (8 per cent) would ruin any chances for competitive pricing.

Malasian and Philippines veneers are imported into the Eastern United States and the Domsuiza veneer must

PLYWOOD
SALES PROFITABILITY IN EXPORT MARKETS
vs
PLANT OPERATING LEVELS

MADERA LAMINADA
POSIBLE GANANCIA EN VENTAS EN MERCADOS EXTRANJEROS
NIVELES DE OPERACION DE LA PLANTA



(a) U.S. PRICES ARE TYPICALLY HIGHER THAN WORLD PRICES. DOMSUIZA F.O.B. MILL PRICE NOT COMPETITIVE.
(b) DOMSUIZA LOSS ON EXPORTS BEFORE DUTIES AND FREIGHT ARE ADDED, U.S. FREIGHT CHARGES TO OTHER POTENTIAL MARKETS ARE EQUAL TO OR SMALLER THAN DOMSUIZAS.

SOURCE: DATA DEVELOPED IN EXHIBIT E.

(a) LOS PRECIOS EN EE. UU. SON TÍPICAMENTE MÁS ALTOS QUE LOS PRECIOS MUNDIALES. LOS PRECIOS DE DOMSUIZA F.O.B. PLANTA NO SON DE COMPETENCIA.
(b) PERDIDA DE DOMSUIZA EN EXPORTACIONES ANTES DE AÑADIR LOS DERECHOS Y FLETE. LOS CARGOS POR FLETE DE EE. UU. A OTROS MERCADOS POSIBLES SON IGUALES O MENORES QUE LOS DE DOMSUIZA.

FUENTE: INFORMACION OBTENIDA DE EXHIBIT E.

Exhibit F
Schedule 2

DOMSUIZA
Schedule of Direct Labor
for Producing Veneer for Plywood

<u>Position</u>	<u>Men</u>	<u>Shifts</u>	<u>Men Per Day</u>	<u>Rate Per Day</u>	<u>Cost Per Day RD\$</u>
Truck Driver (dock to plant)	1	2	2	RD\$ 7	RD\$ 14
Common Laborers (log loaders and unloaders)	4	2	8	4	32
Vat Handlers	4	2	8	4	32
Log Crane Operator	1	2	2	8	16
Lathe Charger	2	2	4	8	32
Lathe Operator	1	2	2	10	20
Reel Operators	2	2	4	8	32
Green Sorters	3	2	6	7	42
Drier Feeders	3	3	9	5	45
Drier Unloaders	3	3	9	5	45
Foreman	1	3	3	19	<u>57</u>
Sub-Total					RD\$367
Fringe benefits, vacations, etc. @ 25%					<u>92</u>
Total direct labor/day					RD\$459
Annual Cost					RD\$114,750

compete with their prices. The price of competitive 1/16" veneer is RD\$19.45 per M square feet on the east coast of the United States. The total cost for the Domsuiza veneer is RD\$10 per M feet². Even before United States duties and the shipping costs from the Dominican Republic to the United States are added, it is obvious that Cativo veneer produced at the Domsuiza plant cannot compete. Puerto Rico and other world markets pose the same problem. From the marketing standpoint, importing logs, producing and exporting of veneer from the Dominican Republic would not prove profitable.

Summary

Current Markets

The present market picture for Domsuiza is indeed discouraging. It reemphasizes the impossibility of running Domsuiza profitably under present domestic and international market conditions.

Exhibit N shows this picture in matrix form. As can be observed, there is no market or combination of markets that could profitably support the plant now.

Future Markets

It is not likely that future domestic or international markets will develop in such a way as to make any of these products profitable. At best, domestic markets in the Dominican Republic can be expected to grow by 5 per cent a year. In the case of veneered bagasse board, this would mean a projected market share by 1979 of 3,950 metric tons, or 53 per cent of plant capacity. For plywood it would mean a 1979 market share of 2,119 metric tons or 21 per cent of plant capacity.

Projected export markets are not favorable to Domsuiza, either. Because of its physical properties, the veneered bagasse board produced by the Domsuiza extrusion method will never secure a very large part of any market where

it must compete with wood particleboards and plywoods. Secondly, Domsuisa produced plywood could not be expected to be price-competitive on future markets given its distant, unreliable source of raw materials and high production costs. Any future rise in world market price levels for wood particleboard or plywood would be accompanied by a corresponding increase in Domsuisa raw material costs, especially for imported logs, and production costs and sales price would rise accordingly.

Summation of Markets and Projected Profitability
for Domsuiza Products

<u>Product</u>	<u>Market Location</u>	<u>Extent of Market</u>	<u>Domsuiza Price Necessary to Compete</u>	<u>Domsuiza Product Cost at this Operating Level</u> *	<u>Comments</u>
Veneered Bagasse Board	Dominican Republic	2200 M tons	\$276/M	\$288/M @ 29% capacity	Not profitable to produce for this market.
Veneered Bagasse Board	Export	Plant Capacity	\$180/M	\$214/M @ full capacity	Production costs too high. Product inferior quality.
Plywood	Dominican Republic	1180 M tons	\$450/M	\$387/M @ 16% capacity	Market insufficient to justify operations.
Plywood	Export	Plant Capacity	\$253/M	\$308/M @ full capacity	Production costs too high. Not competitive.
Veneer	Dominican Republic	Negligible	N. A.	N. A.	Negligible market precludes production.
Veneer	Export	Plant Capacity	\$19.45/M	\$21/M	Production costs too high. Not competitive.

*For export markets expenses associated with freight, insurance, wharfage, and import duty would be added to indicate the full degree of non-competitiveness of the Domsuiza product line.

STRATEGIES

As stated previously, the purpose of this study is to determine whether Domsuiza could be revitalized economically. In addition to the original operational plan for which Domsuiza was conceived, three alternative plans were analyzed and are summarized hereinafter:

Original Operational Plan

Domsuiza's original operating plan in 1960 was to produce veneered bagasse board and remanufactured products for both domestic and export markets. This plan has the following disadvantages:

The extrusion process produces a veneered bagasse board which is qualitatively inferior to competitive products.

The cost of producing the boards is too high to compete in export markets.

Domsuiza's bagasse boards cannot capture a large enough share of the domestic market for this kind of product to make production profitable.

Bagasse board is not the cheapest or most desirable housing material available in the Dominican Republic.

Other remanufactured products such as door cores, trays, casings, etc. would not contribute significantly to profits at Domsuiza. Production of the thick cores is not recommended and sufficient markets could not be found for other products.

The extrusion process for bagasse production is now obsolete and over \$1,500,000 is required to rehabilitate and run the facility.

In view of these reasons extracted from the data compiled throughout the study period, and the additional financial burdens associated with the original concept, it has been concluded that the original concept simply cannot be revitalized on an economic basis without substantial and continuous financial subsidy.

Operating Plan A

Since Domsuiza has the equipment necessary for plywood production, it was thought that this might prove a means of revitalizing the plant as a producer of plywood. However, as developed in the sections on Marketing and Economics,

The local plywood market is too small to sustain the plant.

All raw materials must be imported.

Having little local timber, Domsuiza must import logs from distant, unreliable sources.

High raw material and production costs will make Domsuiza plywoods non-competitive in the world market.

Given these formidable constraints, Plan A is also not economically feasible and therefore not recommended.

Operating Plan B

It was thought that the plant might be successfully rehabilitated through producing a combination of possible products. Of the three basic products, two - veneer and plywood - are qualitatively competitive. This comprises the most favorable product mix for the plant.

Because of the overall market picture, Plan B assumes that plywood would be produced for the domestic market (where there is measurable demand) and veneer for export. Part of this projected operation would utilize the otherwise idle extruder lines to produce a small amount of particleboard core material for plywood centers.



EXAMPLE OF OBSOLETE EQUIPMENT - BELT PULLEYS
UN EJEMPLO DE EQUIPO ANTICUADO - POLEAS DE CORREA

This would dispose of the surplus wood wastes generated by the veneer and plywood operations. Again, however, the investigation discloses that,

Domsuiza is located far from a reliable source of raw materials and thus veneer and plywood production will be both expensive and risky.

Plywood markets in the Dominican Republic are too small to justify operations.

Although there is a veneer market in the United States, it is extremely competitive. Large and efficient operations with low raw material costs set price levels. Being removed from both raw materials and the market place, Domsuiza could not compete.

In terms of production, Plan B represents Domsuiza's best hope of success. Because of the cost and market factors, however, it is extremely doubtful that such an operation could survive. It is definitely not recommended.

Plan C (Recommended)

Because of an insurmountable series of adverse factors, it is strongly recommended that a plan of liquidation be implemented. All equipment, buildings, and acreage should be sold or leased. Even though most of the equipment is now outdated it is likely that it can be sold for a higher price than scrap metal. Nonetheless, because of shipping and crating costs it will have to be sold at reduced prices (considerably less than the residual value developed herein). The buildings and land might best be used by another CORDE operation or a private Dominican business seeking more space. Inexpensive leasing could serve as an inducement to the expansion of some key industry. The repairs now necessary could be written off against future rents.

The most expedient method to dispose of the buildings would be to advertise in the Dominican Republic that this property is available.

The best procedure in disposing of the equipment is to sell it all as a unit. This can be done by advertising it in some of the following Trade Journals:

Plywood Magazine (published in the United States).

Forest Industries Magazine (published in the United States).

Wood Magazine (published in the United States).

Board Magazine (published in Great Britain).

Another outlet that may produce results is to list it with used equipment dealers that sell this type of equipment on an "Entire Plant Basis". Some of these dealers are:

**Simpson Machinery Sales
7805 NE Sandy Boulevard
Portland, Oregon 97213**

**Tallmann Machinery Company
Linnwood, Washington**

**U. S. Wallboard Machinery Company
1 Whitehall Street
New York, New York 10004**

Other possibilities are to contact the following firms that are now operating extruder machines in the United States for possible purchase of the equipment:

<u>Firm</u>	<u>Process</u>
American Furniture Company Martinsville, Virginia	Lanewood (Two) Horizontal Extruder
Caldwell Furniture Lenoir, North Carolina	Lanswood Horizontal Extruder
Lane Company Altavista, Virginia	Lanewood Three Horizontal Extruder
Lenoir Chair #2 Newton, North Carolina	Lanewood Two Horizontal Extruders

Rutherford Furniture Company
Rutherfordton, North Carolina

Lanewood
Horizontal Extruder

Thomasville Furniture Company
Thomasville, North Carolina

Lanewood
Horizontal Extruder

APPENDIX I

Inventory and Evaluation of:

Equipment

Buildings and Grounds

Miscellaneous Equipment - Not Installed

Source: Physical Inventory, January 1969

Exhibit F
Schedule 3

DOMSUIZA
Schedule of Direct Labor
for Producing Plywood from Veneer

<u>Position</u>	<u>Men</u>	<u>Shifts</u>	<u>Men Per Day</u>	<u>Rate Per Day</u>	<u>Cost Per Day RD\$</u>
Truck Driver	1	1	1	RD\$ 7	RD\$ 7
Common Laborers (veneer loaders and unloaders)	8	1	8	4	32
Veneer Jointing Operators	4	1	4	8	32
Veneer Edge Gluing and Taping Workers	6	1	6	8	48
Lift Truck Operators	2	1	2	8	16
Bagasse Board Core and Veneer Lay Up Operators	4	1	4	8	32
Plywood (veneer and bagasse) Press Op- erators	4	1	4	8	32
Trim Saw Operators	5	1	5	5	25
Warehousemen	4	1	4	5	20
Cleanup Man	1	1	1	4	4
Sanding Machiner Op- erators	4	2	8	8	64
Foreman	1	1	1	19	<u>19</u>
Sub-Total					RD\$331
Fringe benefits, vacations, etc. @ 25%					<u>82</u>
Total direct labor/day					RD\$413
Annual Cost					RD\$103,250

DOMSUIZA
Equipment Inventory and Evaluation
Instructions

"Bake and rework motor" indicates the following procedure.

The motor must be removed, disassembled, stator baked and dipped where found necessary, bearings washed in solvent and relubricated. Motor reassembled, painted, and reinstalled and connected. Gear motors also have the reducer cleaned, inspected, and relubricated.

The power supply and use voltage of all equipment is 440V, 3 phase, 60 cycle, unless otherwise indicated.

A sampling of 70% of all motors in the plant were "meggered" and 10% of these measured unsatisfactory resistance to ground.

Virtually all motors are totally enclosed, fan cooled.

A sampling of 90% of the controls and switchgear in the plant was meggered and 15% of these measured unsatisfactory resistance to ground. Approximately 30% of the feeder cables in the troughs measured unsatisfactory resistance to ground.

Residual value is based on the installed cost including compressed air and water if required for operation unless stated. It includes the electrical installation unless a separate control panel is used.

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 1
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Ozama Briquetting Plant		Screw Feeder	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Screw Conveyor	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Feed bagasse to grinder		none	
<u>STARTER</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A	2	Varidrive gearmotor	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Conveyor and chute are in fair condition.			RD\$ 100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Rework the screw feeder and paint the exterior of it.			RD\$ 300
Bake and rework the motor.			
Re-install the drive.			

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 2
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Ozama Briquetting Plant		Hammermill	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland		Novorotor 650/500 27" wide X 64" long; Mill pulley 11" diameter Sizing screen approximately 15mm.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Shred bagasse fiber		Chute to inlet hopper 14" X 21" approximately 12 ft. long.	
<u>STARTER</u> LOCACION UBICACION DEL ARRANCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
Panel A	37 37	1765 rpm Schorch motor pulley 15-1/2" diameter 1765 rpm Schorch (motor missing)	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL</u> VALOR RESIDUAL
One motor is missing. One belt is missing. Hammermill is in poor condition.			RD\$ 3200
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION</u> COST COSTO DE RESTAURACION
Supply and install one motor, pulley and 5" wide belt. Partially dismantle machine, clean bearings, inspect rotors and relubricate. Bake and rework one motor. Reinstall drive with new belt. Remove rust and paint.			RD\$ 1200

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 3
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Ozama Briquetting Plant		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Bagasse Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Fan type VE680-226/60 Fan pulley has 6" diameter and 5" face	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Convey bagasse to dryer		Duct from hammermill to fan Duct to cyclone.	
<u>STARTER</u> <u>LOCACION</u> <u>DEL</u> <u>ARRANCADOR</u> Panel A	<u>KW</u> KW 26	<u>MOTORS</u> <u>MOTORES</u> 1775 rpm	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Pipe line to cyclone is in good condition. Fan is in fair condition.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Paint fan housing. Clean and relubricate fan bearings. Bake and rework motor. Reinstall drive with new belt.			RD\$ 400

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 4
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Ozama Briquetting Plant		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Bagasse Cyclone	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Cyclone 3 ft. diameter, 12 ft. high. Installed over dryer duct and feeds into it.	
<u>FUNCTION</u> <u>FUNCION</u> Air separator		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Air valve	
<u>STARTER</u> <u>LOCACION</u> <u>DEL</u> <u>TRANSCADOR</u> none	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Cyclone in satisfactory condition. Air valve is in satisfactory condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Replace plastic for windows. Touch up paint.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 50

DOMBUZA

~~EQUIPMENT INVENTORY AND EVALUATION~~ INVENTARIO DE EQUIPO Y EVALUACION

~~SHEET 5~~
HMA

<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Ozama Briquetting Plant</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p>Air Heater (Oil Burner with combustion chamber)</p>	
<p>EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>FUNCTION FUNCION</p> <p>Combustion products dry fiber</p>		<p>AUXILIARY EQUIPMENT NUMBER EQUIPO AUXILIAR INCLUIDO</p> <p>none</p>	
<p>STARTER LOCATION UBICACION ENCUADRO</p> <p>Panel A</p>	<p>KW KW</p> <p>1</p>	<p>MOTORS MOTORES</p> <p>HP Type H General Motors</p>	
<p>PHYSICAL STATE ESTADO FISICO</p> <p>Burner is badly corroded. Replacement of 25% of parts required.. Combustion chamber in fair condition.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL RD\$</p> <p style="text-align: center;">600</p>
<p>PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Replace corroded parts of burner. Completely rework burner, remove rust remaining and coat with aluminum paint. Replace 7" diameter temperature gauge and 15 ft. of thermocouple wire.</p>			<p>RESTORATION COST COSTO DE RESTAURACION RD\$</p> <p style="text-align: center;">400</p>

DOMBUZA

~~EQUIPMENT INVENTORY AND EVALUATION~~ ~~INVENTARIO DE EQUIPO Y EVALUACION~~

~~SHEET 6~~
~~HOJA~~

<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Ozama Briquetting Plant</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p>Dryer Fan</p>	
<p>EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Pawert Ltd. Basel, Switzerland</p>		<p>Fan housing 19" wide 7'-0" diameter. Fan pulley 15" diameter and 6" face.</p>	
<p>FUNCTION FUNCION</p> <p>Fiber Drying</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO</p> <p>Ductwork from heater to fan</p>	
<p>STARTER LOCACION CONDICION CONDICION</p> <p>Panel A</p>	<p>KW KW</p> <p>35</p>	<p>MOTORS MOTORES</p> <p>1770 rpm Type K 1051/4 Schorch</p>	
<p>PHYSICAL STATE ESTADO FISICO</p> <p>Insulation in good condition on fan and dryer duct. The motor is missing. The drive belt is missing. The fan is in fair condition.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p>RD\$</p> <p style="text-align: center;">800</p>
<p>DATA MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Clean bearings and relubricate fan. Furnish and install new motor. Install drive with new belt. Remove rust, and paint fan and ducts.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p>RD\$</p> <p style="text-align: center;">1100</p>

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 7
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Ozama Briquetting Plant		Dryer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Type 800/1200 Duct 24" diameter The fiber dryer consists of a vertical double walled riser for up and down air flow and a duct to the cyclone.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Dry fiber		none	
<u>STARTER</u> <u>LOCACION</u> <u>DEL</u> <u>GENERADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The condition of the dryer ducts is satisfactory.			RD\$ 1200
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Remove rust and paint the ducts.			RD\$ 200

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 8
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Ozama Briquetting Plant		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Dryer Cyclone	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Cyclone 5 ft. diameter X 15 ft high.	
<u>FUNCTION</u> <u>FUNCION</u> Air Separator		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>UBICACION</u> <u>DEL</u> <u>ENCENDIDO</u> none	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Cyclone is in bad condition.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 200
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Rework 20% of cyclone, and duct. Replace corroded sections, remove rust and repaint.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 1100

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 9
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> <p style="text-align: center;">Ozama</p> <p>Briquetting Plant</p>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> <p style="text-align: center;">Screw Feeder for Briquettor</p>	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		12" diameter screw, conveyor, 7 ft long, with adjustable speed motor.	
<u>FUNCTION</u> <u>FUNCION</u> Regulate fiber into Briquettor		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> <p style="text-align: center;">none</p>	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ENCENDIDO</u> Panel A	<u>KW</u> KW <p style="text-align: center;">.75</p>	<u>MOTORS</u> <u>MOTORES</u> <p style="text-align: center;">HP variable speed gearmotor</p>	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Remote operating chain to varidrive is missing. Dump chute into extruder is in good condition, but requires glass viewing window. Screwfeeder is in fair condition.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">200</p>
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Remove rust, and paint feeder and chute. Bake and rework motor. Replace operating chain. Reinstall drive.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">500</p>

DOMSUIZA
Schedule of Supplies, Power and Fuel
Requirements for Production of Plywood

Supplies

Experience with similar facilities indicates that production supplies will include the following:

Oil	Lathe Knives
Grease	Bearings and Belts
Saw Blades	Miscellaneous
Cost	RD\$160/day
Annual Cost	RD\$40,000/yr.

Power

Production of veneer and plywood require 40% of the total plant power as calculated in Schedule 6 of Exhibit E.

Cost = (RD\$5919) (.40) = 2368/mo.
Annual Cost = RD\$28,411

Fuel

From experience at similar plywood mills it is expected that the trim and miscellaneous waste will supply ample fuel for process heating, (No heat required in building).

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACIÓN

SHEET 10
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Ozama Briquettor Plant		Bagasse Briquettor	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Glomera Brikettpressen Type 154 Special No. 077/60 10" drive pulley X 14" face Flywheel 55" diameter X 13-1/2" face Drive 70" c-c	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
To produce briquettes		Cooling Rods 30 ft long - 4 rods.	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>GENERADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A Panel B	50	885 rpm 76 Amp Type KWR 1351/8M Panel A - (Drive Motor) Panel B - (Operators' Controls)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Mildly corroded inside of crank case. Briquettor is in fair condition. Cooling rods are in good condition.			RD\$ 8000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Replace extruder die. Clean and flush crank case of all rust. Clean and flush hydraulic system. Bake and rework motor. Reinstall drive with new belt.			RD\$ 1300

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 11
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Ozama Briquetting Plant		Electrical Panel A	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Panel was built up from manufactured parts by installation contractor. It consists of a steel rack with safety switch and starter positions in addition to the conduit run to the motors.			
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Supply power to motors.		Conduit to motors.	
<u>STARTER LOCATION</u> UBICACION DEL MOTORCADO	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
Near hammer-mill		Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$
Starters and switches have been removed from panel.			100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$
Install gutter box near bottom rack. Rework conduit runs where necessary to feed into lower gutter. Install safety switches and starters between upper and lower gutters. Wire panel and connect motor runs. All motor runs and control wires measure "good resistance to ground".			2500

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 12
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Ozama Briquetting Plant		Electrical Panel B	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Panel contains electrical relays, switches, electrical, and hydraulic controls for the Briquettor. 1 - 6" gauge 0-25 Kg/cm ² 1 - 6" gauge 0-250 Kg/cm ²	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Briquettor Operator's Control		Hydraulic lines to the briquettor.	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		Motors are listed with mechanical equipment.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Electrical controls in bad condition. Panel is dirty and rusty, but in fair condition.			RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Rebuild the electrical controls inside panel. Provide dirt seal for hydraulic operating handle. Reroute hydraulic lines in a safe position.			RD\$ 900

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 13
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Ozama Briquetting Plant		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Oil Storage and Pumping Station	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Manufacturer unknown		Tank 17 ft. diameter X 14 ft. high Bulk unloading pump 10 HP 5" diameter	
<u>FUNCTION</u> FUNCION Store and pump Bunker "C" oil		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO none	
<u>STARTER</u> LOCATION UBICACION DEL ARRANCADOR Panel A	<u>KW</u> KW 7.5	<u>MOTORS</u> MOTORES Pump	
<u>PHYSICAL STATE</u> ESTADO FISICO Tank is badly corroded. Unloading pump is beyond repair.			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Tank: Check plate thickness, Install new top plate, Replace outlet nipple and pipe line to burner. Pump: Bake and rework motor and install on new pump.			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ 900

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 14
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Barahona Briquetting Plant		Screw Feeder to Hammermill	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Webster		Screw Feeder	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Regulate flow to the hammermill.			
<u>STARTER</u> <u>LOCACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A		3/4 HP cone drive	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The drive is in bad condition. The wiring of the motor is in bad condition.			RD\$ 100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Remove rust and paint feeder. Repair the wiring to the motor. Replace the cone drive. Bake and rework motor.			RD\$ 400

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 15
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Barahona Briquetting Plant		Rotary Feeder	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		The rotary feeder is installed in the duct to the hammermill and allows the fiber to pass through.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Air lock for hammermill		Duct from screw feeder	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A		1 HP G. E.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Feeder drive is in bad condition. Feeder is in fair condition.			RD\$ 150
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Replace wiring to the motor. Replace drive to feeder. Bake and rework motor.			RD\$ 300

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 16

HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Barahona Briquetting Plant		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Hammermill	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland		Novorotor 650/500 221/60 Type K 27" wide X 64" long mill.	
<u>FUNCTION</u> FUNCION Shred bagasse fiber.		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO Chute to hammermill inlet.	
<u>STARTER</u> LOCATION UBICACION DEL ARRANCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
Panel A	37 37	1765 rpm 3 phase 440V 60 cycle Schorch 1765 rpm 3 phase 440V 60 cycle Schorch	
<u>PHYSICAL STATE</u> ESTADO FISICO The hammermill is in fair condition. The drive belt is missing.			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 4000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Remove rust on hammermill and chute and paint equipment. Bake and rework motors. Reinstall drives with new belts.			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ 600

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 17
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Barahona Briquetting Plant		Bagasse Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Type VF 680-220/60	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Convey bagasse to dryer		Duct from hammermill to fan. Duct to cyclone.	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A	26	1770 rpm Schorch	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Fan and ducts are in fair condition. The drive belt is missing.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Inspect and repair electrical connection to motor. Remove rust, and paint the equipment. Clean and relubricate fan bearings. Bake and rework motor. Reinstall drive with new belt. Replace corroded portion of duct.			RD\$ 500

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 18
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Barahona Briquetting Plant		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Bagasse Cyclone	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		The cyclone is 3 ft in diameter X 12 ft high. It is installed over the dryer duct and feeds into it.	
<u>FUNCTION</u> <u>FUNCION</u> Air Separator		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>TRANSCADOR</u> none	<u>KW</u> <u>KW</u> 	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Cyclone is in fair condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Remove rust and paint.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 200

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 19
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Barahona Briquetting Plant	<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Air Heater With Oil Burner and Combustion Chamber	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION		
Uniflow	Oil Burner Size 30 Type 3 SGH 13 to 50 gallons/hr. Minneapolis-Honeywell controls.	
<u>FUNCTION</u> FUNCION Combustion products dry fiber.	<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO none	
<u>STARTER</u> LOCATION UBICACION DEL AVANZADOR Panel A	<u>KW</u> KW	<u>MOTORS</u> MOTORES 1 HP Type H General Motors
<u>PHYSICAL STATE</u> ESTADO FISICO Combustion chamber is in fair condition. Burner controls are in poor condition.		<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 700
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Remove rust, and paint equipment. Replace burner controls.		<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ 500

Exhibit F
Schedule 5

DOMSUIZA
Schedule of Indirect Labor and
Administrative Expense for Plywood Production

<u>Indirect Labor</u>	<u>Cost Per Day</u>
Manager (50% allocation)	RD\$19
Quality Control (Chief plus Asst.)	20
Superintendent	<u>24</u>
Sub-total	RD\$63
Fringe Benefits 25%	<u>16</u>
Total	RD\$79/day
Annual Cost	RD\$19,750
 <u>Administrative Expense</u>	
Manager (50% allocation)	RD\$19
Accountant	21
Clerks (3) at RD\$9 each	27
Typist	<u>8</u>
Sub-total	RD\$75
Fringe Benefits at 25%	<u>19</u>
Total	RD\$94/day
Annual Cost	RD\$23,500

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 20
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Barahona Briquetting Plant		Dryer Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Fan Type VE 1200-223/60	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Convey fiber through dryer.		Duct work from heater to fan.	
<u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u> <u>DEL</u> <u>ENCENDIDO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A	35	1770 rpm 58 amp Schorch	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Fan and duct are in fair condition.			RD\$ 800
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Remove rust, and paint equipment. Bake and rework motor. Reinstall drive with new belt. Clean bearings and lubricate.			RD\$ 600

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 21
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Barahona Briquetting Plant		Dryer Duct and Cyclone	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland		Type 800/1200 Duct 24" diameter. Cyclone 5 ft. diameter X 15 ft. high.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Dry fiber		none	
<u>STARTER</u> LOCACION UBICACION DEL INTENCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
none		none	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL</u> VALOR RESIDUAL
Some of the duct is corroded away. General condition is poor.			RD\$ 1000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION</u> COST COSTO DE RESTAURACION
Replace corroded sections of dryer duct. Remove scale and rust, and paint duct and cyclone.			RD\$ 600

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 22
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Barahona Briquetting Plant		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Screw Feeders to Briquettor (Two Units)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Manufacturer unknown			
<u>FUNCTION</u> <u>FUNCION</u> Regulate flow to Briquettor		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Ducts from cyclone to briquettor	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> Panel A	<u>KW</u> <u>KW</u> 2 2	<u>MOTORS</u> <u>MOTORES</u> Gear motor. Gear motor.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Both feeders are in fair condition. Ducts are in fair condition.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 500 (2)
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Remove rust and paint equipment. Bake and rework motors.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 300 (2)

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 23

HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Barahona Briquetting Plant		Briquettor	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Glomera Briquettpressen (Double Machine) Flywheel drive pulley 55" X 15" face. Machine is for 2-3/4" diameter briquette.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
To produce briquettes		Operator's control panel.	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>TRANSCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A	75	885 rpm 129 Amp. Schorch pulley 10" diameter 15" face.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Briquettor is in good condition. The drive belt is missing. Electrical-Hydraulic operator's panel is in bad condition.			RD\$ 10,000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Clean and paint briquettor. Replace operator's panel. Bake and rework motor. Reinstall drive with a new belt.			RD\$ 3,000

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 24
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Barahona Briquetting Plant		Oil Storage and Pumping Station	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		2-Tanks: 6 ft diameter X 18 ft long.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Store Bunker "C" oil		Oil line to burner.	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>GENERADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A	7.5	Pump motor.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The tanks are 60% buried in soil, but appear to be in fair condition.			RD\$ 600
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Inspect pump and repair if needed. Bake and rework motor. Inspect Condition of tanks under fill. Remove rust and paint tanks.			RD\$ 400

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 25
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Barahona Briquetting Plant		Electrical Panel A	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		Panel A contains switches, starters, push buttons, etc., for motor control.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Supply electric power to motors.		Electrical wiring to motors and controls.	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel A		Motors are listed with mechanical equipment.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The panel is in fair condition. The conduit is satisfactory, but some wiring requires replacing.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Remove rust, and paint panel. Replace wiring required.			RD\$ 700

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 26
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Belt Conveyor	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Stohr Transportanlagen Offenbach, Germany		#N9307A-80AA cleated rubber belt 18" wide X 8.0m c-c. Idlers 1.0m c-c. Portable unit.	
<u>FUNCTION</u> <u>FUNCION</u> Briquette Conveyor		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>TRANSCADOR</u> Panel #2	<u>KW</u> <u>KW</u> 1/2	<u>MOTORS</u> <u>MOTORES</u> Gearmotor, Scherch	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Conveyor in fair condition. Equipment is rusty.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Bake and rework motor/reducer. Lubricate belt idlers.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 250

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 27
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Bagasse Particleboard Line A		Hammermill	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland		Hammermill/Novorotor #605/500 twin mill Mill pulleys 27" wide by 64" long, 15" dia.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Shred briquettes		Inlet chute, suction funnel	
<u>STARTER</u> LOCACION UBICACION DEL CONCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
Panel #2	37 37	Motor 1770 rpm, Schorch motor pulleys 15" dia. Motor 1770 rpm, Schorch	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL</u> VALOR RESIDUAL
Equipment in good condition, except rusty.			RD\$ 3500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION</u> COST COSTO DE RESTAURACION
Remove rust and paint, install new flat belt. Bake and rework motors. Inspect and renew screen if required. Install pulleys, and flat belts. Fabricate and install belt guards.			RD\$ 1000

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 28

HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Bagasse Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland		7-1/2" dia. flat pulley - 5" wide	
<u>FUNCTION</u> FUNCION Convey bagasse from hammermill to dryer		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO 7.5" dia. duct from hammermill to fan. 12" dia. pipe to cyclone	
<u>STARTER LOCATION</u> UBICACION DEL TRANSCADOR Panel #2	<u>KW</u> KW 22	<u>MOTORS</u> MOTORES 1775 rpm Schorch	8" dia. flat pulley 5" wide on motor
<u>PHYSICAL STATE</u> ESTADO FISICO Bullet hole in transition section of fan. Hole in pipe to cyclone. Equipment is rusty. Mechanical condition fair.			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 350
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA 5" wide drive belt missing. Supply missing belt. Repair holes in transition section of fan and in pipe to cyclone. Remove rust and paint machine and ducts. Bake and rework motor. Install drive. Fabricate and install belt guard.			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ 450

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 29
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line A		Air Heater (Oil burner and combustion chamber)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Burner G. Johnson, Oakland, California		Burner type BH-2	
Chamber Oertli A. G. Dubendorf Zurich, Switzerland		Chamber type AR3 No. 257 Fan 3800 Cu. meter/Hr	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Fiber drying		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>GENERADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #21	2.2 1/16HP	1780 rpm	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Combustion chamber not insulated - Burner too small for job. Combustion chamber in fair condition.			RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Replace missing dryer temperature controls, supply and install insulation for combustion chamber. Install and connect adequate oil burner. Remove rust and paint exposed parts.			RD\$ 700

Exhibit F
Schedule 6

DOMSUIZA
Schedule of Depreciation
of Buildings and Equipment
for Producing Plywood

	<u>Buildings</u>	
	<u>Residual Value</u>	<u>(+) Missing Equipment</u>
Veneer Line	RD\$12,750	RD\$24,600
Layup Section	<u>21,250</u>	<u>41,000</u>
Total	RD\$34,000	RD\$65,600

Total Residual Value + Needed Improvements = \$99,600
Depreciation - Buildings, 20 years Straight Line = 4,980/yr.

	<u>Equipment</u>	
	<u>Residual Value</u>	<u>(+) Missing Equipment</u>
Veneer Line	RD\$50,650	RD\$139,000
Layup Section	<u>24,050</u>	<u>205,700</u>
Total	RD\$74,700	RD\$344,700

Total Residual Value + Needed Improvements = \$419,400
Depreciation - Equipment 10 years Straight Line = RD\$41,940/yr.

Total Buildings, Equipment and Improvements = \$519,000

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 30
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Oil Pre-heater	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Oertli A. G. Dubendor, Zurich, Switzerland		400 liter P.O. No. 11640	
<u>FUNCTION</u> <u>FUNCION</u> Pre-heat bunker "C" oil		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>AVANZADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Note: Pre-heater has an 8KW electric heater	
Panel #21			
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> No pipe to oil storage tank. Gauges and control parts missing and broken. Pre-heater dirty, rusty, and in bad condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 350
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Rework entire pre-heater. Remove rust and paint. Replace broken and missing gauges and controls.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 500

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 31
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line A		Bagasse Cyclone	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		4 ft. diameter (for bagasse fan)	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Air separator		Air valve	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Cyclone has bullet holes in it. Cyclone is rusty, but in fair condition.			RD\$ 150
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Repair bullet holes in cyclone. Remove rust and repaint cyclone. Repair holes in air valve. Remove rust and repaint air valve.			RD\$ 400

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 32
HOJA _____

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Dryer Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Fan pulley 15" dia. Drive 28" c-c	
<u>FUNCTION</u> <u>FUNCION</u> Dry fiber		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Ductwork from air heater to fan	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u> 37	<u>MOTORS</u> <u>MOTORES</u> 1765 rpm Motor pulley 8.5 in dia.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Fan and duct are rusty, otherwise in good condition.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 700
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Supply missing 5" flat belt. Bake and rework motor. Install drive. Remove rust and paint fan.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 600

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 33
NO. 10

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line A		Dryer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Type 800/1200 Duct 24" diameter The fiber dryer consists of a vertical double walled riser for up and down air flow and a duct to the cyclone.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Dry fiber		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Several bullet holes are evident and the duct is rusty. Dryer is in fair condition.			RD\$ 1000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Repair bullet holes, remove rust and repaint dryer.			RD\$ 300

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 34
HOJA

<p><u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line A</p>		<p><u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO</p> <p>Dryer Cyclone</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Pawert Ltd. Basel, Switzerland</p>		<p>Model HZ42 83" diameter</p>	
<p><u>FUNCTION</u> FUNCION</p> <p>Dryer air separator</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO</p> <p>none</p>	
<p><u>STARTER</u> LOCACION DE ENCENDIDO</p> <p>none</p>	<p><u>KW</u> KW</p>	<p><u>MOTORS</u> MOTORES</p> <p>none</p>	
<p><u>PHYSICAL STATE</u> ESTADO FISICO</p> <p>There are shell holes in the cyclone, and it is in bad condition.</p>			<p><u>RESIDUAL VALUE</u> VALOR RESIDUAL</p> <p>RD\$</p> <p style="text-align: center;">300</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Repair shell holes in cyclone. Remove rust, and repaint cyclone. Add a dust collector to air discharge to prevent pollution.</p>			<p><u>RESTORATION COST</u> COSTO DE RESTAURACION</p> <p>RD\$</p> <p style="text-align: center;">700</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 35
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Vibrating Screen	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Frambs and Freudenberg West Germany		4' X 7" width 11' X 0" length 7' X 7" height	
<u>FUNCTION</u> FUNCION Separate fiber from pith		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO Discharge duct and flex connector at screen feed.	
<u>STARTER</u> LOCACION MOTOR MOTOR	<u>KW</u> KW 7.5	<u>MOTORS</u> MOTORES	
<u>PHYSICAL STATE</u> ESTADO FISICO Screen mesh is in bad condition. Flex connector at screen feed is in bad condition. Screener generally in good condition.			<u>RESIDUAL</u> VALOR RESIDUAL RD\$ 800
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Repair and paint screen frame structure. New screen mesh is required. Replace flex connector. Replace V-belts for drive. Bake and rework motor and install drive. Remove rust and paint screen.			<u>RESTORATION</u> COSTO DE RESTAURACION RD\$ 700

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<p><u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard Line A and Line B</p>		<p><u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO</p> <p>Fines Fan</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Pawert Basel, Switzerland</p>		<p>20 cm 8" discharge duct Fan pulley 8" dia.</p>	
<p><u>FUNCTION</u> FUNCION</p> <p>Convey fines and pith to boiler</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO</p> <p>Connecting ducts to screen and to cyclone.</p>	
<p><u>STARTER LOCATION</u> UBICACION</p> <p>Panel</p> <p style="text-align: center;">4</p>	<p><u>KW</u> KW</p> <p style="text-align: center;">17</p>	<p><u>MOTORS</u> MOTORES</p> <p>1700 rpm Schorch Motor pulley 6-1/2" dia.</p>	
<p><u>PHYSICAL STATE</u> ESTADO FISICO</p> <p>Fan serves lines A and B through a "Y" inlet duct. Fan is shell damaged beyond repair. Value of spare fan to be used (see note below).</p>			<p><u>RESIDUAL VALUE</u> VALOR RESIDUAL</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">150</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Replace fan. Bake and rework motor. Install drive. Repair holes in ducts. Remove rust and paint ducts.</p> <p>Note: There is a spare fan which could be used. If used, remove rust and repaint.</p>			<p><u>RESTORATION COST</u> COSTO DE RESTAURACION</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">500</p>

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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line A</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Vibrating Feeder</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p>			
<p><u>Jüst GmbH</u> Munster, Westfield, Germany</p>		<p>No. MRI 933 450/300 - 15.00</p>	
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Proportion fiber feed to mixer</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p>Temporary chute to mixer at feeder discharge.</p>	
<p><u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u></p> <p>Panel #4</p>	<p><u>KW</u> <u>KW</u></p>	<p><u>MOTORS</u> <u>MOTORES</u></p> <p>4.3 Amp 440V 1 phase</p>	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Feeder is in good condition. Chute is satisfactory.</p>			<p><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p>RD\$ 600</p>
<p><u>REPAIR WORK AND RESTORATION REQUIRED</u> <u>PEZAS REQUERIDAS Y RESTAURACION NECESARIA</u></p> <p>Remove rust and paint feeder. Add dust cover and connect it to dust collector.</p>			<p><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$ 300</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Mixer Station	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Draiswerke GmbH Mannheim, Germany		Equipment includes Mixer type KFSP 319, 99"L. X 28" dia. with batch weighing and air cyl. at intake; resin metering pump; type LR mixing tank 1.1m dia. X 52" high with pump and batch paddle mixer (5HP vertical drive); batch mixer tank 27" dia. X 31" high with propeller agitator; hot water circulating pump .55 KW and heat exchanger tank 8" dia. X 36" high.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Preparation of resins Addition of resin to fiber		See equipment above.	
<u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u> <u>MANCADO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #41	5 10 1/4HP 1/4HP 3/4HP	(tank agitator) Schorch gear motor 0.55 KW (mixer drive) (hot water cir- (resin metering pump) culation pump) (mixer discharge) 3.1A resin transfer pump (batch mixer propeller type)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Mixer station was used and not cleaned properly. Hardened resin clings to many surfaces. Other than being dirty, machinery and tanks are in fair condition.			RD\$ 4000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
This equipment requires mechanical reconditioning and a thorough cleaning. Remove rust, and paint all equipment. Bake and rework all motors. Remove rust on V-pulleys and replace V-belts. Install all drives.			RD\$ 1200

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line A		Extrusion Machine (press)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Extrusion machine platens 52" long X 120", heated by superheated water. Motor pulley 5" dia X 12" face Machine pulley 52" dia. 11" wide belt, drive 104" c-c, Machine has variable speed drive.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Fiber board extrusion		Vent hood 60" X 75" and 24" duct to fan above.	
<u>STARTER LOCATION</u> <u>UBICACION DEL ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #31	-	7.2/15/25/31.4 KW 350/750/1200/1500 rpm Type RS 4521/6 Schorch motor, variable speed, 440 volt 41 amp. Note: the "M-G" set for this motor is written up in the Electrical Section of the report.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Machine is rusty, but in fair condition. Hot water piping connection is missing.			RD\$ 15,000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Make a complete internal inspection of the machine. Clean, and inspect crankshaft of extruder. Re-lubricate and fill crankcase with lube oil. Add permanent hot water connections. Remove rust, and paint extruder and hood. Bake and rework motor and install drive. Supply new belt.			RD\$ 800

Exhibit F
Schedule 7

DOMSUIZA
Schedule of Working Capital
New Capital Requirements
Interest Expense and Insurance Expense
for Producing Plywood

Estimate of
Average Working Capital

Inventories (Logs and Glue) - 1 1/2 mo.	RD\$ 285,000
Accounts Receivable Financing (2 mo.)	436,000
Miscellaneous	<u>30,000</u>
	RD\$ 751,000

New Capital Requirements

Building Restoration + Missing Equipment	RD\$ 65,600(Schedule 6)
Equipment Restoration + Missing Equipment	344,700(Schedule 6)
Working Capital	<u>751,000^(a)</u>
Total New Capital	RD\$1,161,300
Interest Expense at 7%	RD\$ 81,291^(a)
Total - Buildings, Equipment and Improve- ments	519,000(Schedule 6)
Fire and Liability Insurance @ 2%	10,380

(a) For production at less than 100 capacity, working capital is reduced proportionately and the interest associated with this reduction in working capital is also reduced.

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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line A</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Extruder Ventilator Fan</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p>			
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Extruder vent fan</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p>none (duct included with extruder)</p>	
<p><u>STARTER</u> <u>LOCACION</u> <u>CONDICION</u></p>	<p><u>KW</u> <u>KW</u></p>	<p><u>MOTORS</u> <u>MOTORES</u></p>	
	4	840 rpm Bauknecht	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Equipment in fair condition.</p>			<p><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p>RD\$</p> <p style="text-align: center;">400</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Remove rust, and paint fan and outside duct.</p> <p>Bake and rework motor and re-install fan impeller.</p>			<p><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$</p> <p style="text-align: center;">400</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line A		Cut-off Saw	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Schweighouse West Germany		Equipment includes a board saw, saw traverse drive, with a P.I.V. drive, and a pneumatically actuated saw carriage.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Cut off extruded board to desired lengths.			
<u>STARTER</u> <u>LOCACION</u> <u>REGION</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
	7.5	3450 rpm 8 amp Saw Motor 2.3 amp 1800 rpm Saw Traverse Drive (gear motor)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Machine is in good condition, but with a little rust.			RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Run-out table and stacking equipment are missing. Supply and install this machinery. Drain, clean, and refill P.I.V. gear box. Bake and rework motors and motor/reducer. Install drives. Connect plant compressed air to machine. Rework pneumatic cylinders.			RD\$ 4000

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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard Line A and B</p>	<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Electrical Panel #3 Distribution board for extrusion press area</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p> <p>Siemens - Schuckertwerke Erlangen, Germany</p>		
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Fuse gear</p>	<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p>	
<p><u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u></p> <p>-</p>	<p><u>KW</u> <u>KW</u></p> <p>-</p>	<p><u>MOTORS</u> <u>MOTORES</u></p> <p>Motors are listed with mechanical equipment</p>
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Panel 150 cm wide, 200 cm high, 45cm deep metal clad Doors close well. Condition of equipment is good.</p>		<p><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p>RD\$ 500</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>12-100A fuses, 6-60A fuses, 21-25A fuses, and 2 extruder vent fan cable runs are missing. Install fuses and cable runs. Identify and replace grounded cable runs. Remove rust and paint panel.</p>		<p><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$ 700</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line A		Electrical Panel #31 Extrusion machine control panel	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Richard Schramm GmbH Frankfurt Am Main		Mess - Steuer - Regeltechnik	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Machine control panels		Push button - meter panel on machine	
<u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Inside panel		Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Wall mounted panel contains fuses, starters, current transformers, terminals, and main control switch. Panel is protected by tight door, and is in excellent condition. Panel on machine is in good condition. Outgoing cables are installed in an unsafe manner.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
No parts are missing. Switch handle won't operate main switch when door is closed. Replace handle. Re-install outgoing cables.			RD\$ 300

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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line A</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Electrical Panel #32</p> <p>Extrusion Machine Cut-off Saw Control Panel</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p> <p>P. Hansen Schweighouse, West Germany</p>			
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Cut-off saw control</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p>Hydraulic valves and limit switches</p>	
<p><u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u></p> <p>on machine</p>	<p><u>KW</u> <u>KW</u></p>	<p><u>MOTORS</u> <u>MOTORES</u></p> <p>Motors are listed with mechanical equipment</p>	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Panel mounted on side of machine. Wiring has been revised and solenoids disconnected. Crossed over wires indicate careless work. Panel is not covered.</p>			<p><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p>RD\$</p> <p style="text-align: center;">none</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Completely replace wiring and furnish dust tight cover.</p>			<p><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$</p> <p style="text-align: center;">600</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line A and B		Electrical Panel #2	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Siemens - Schuckertwerke Erlangen, Germany		Distribution board for fiber preparation area.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Fusegear and starters		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
See Plant Layout		Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Panel 195 cm wide, 200 cm high, 55 cm deep, metal clad, contains main sw, fuses, and starters, bus bar and terminals. Doors don't fully close, therefore panel is subject to rain from damaged roof. Parts are corroded and starters rusted.			RD\$ 800
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
6-200 A. fuses, 9-100 A. fuses, 15-60 A. fuses, 7-25A. fuses, 1 size 3 starter, and 1 size 1 starter are missing. Install the above equipment and connect starters. Replace 6 start-stop stations in doors. Remove rust on panel and equipment and paint. Connect cables to two hammermill motors and one conveyor motor.			RD\$ 1250

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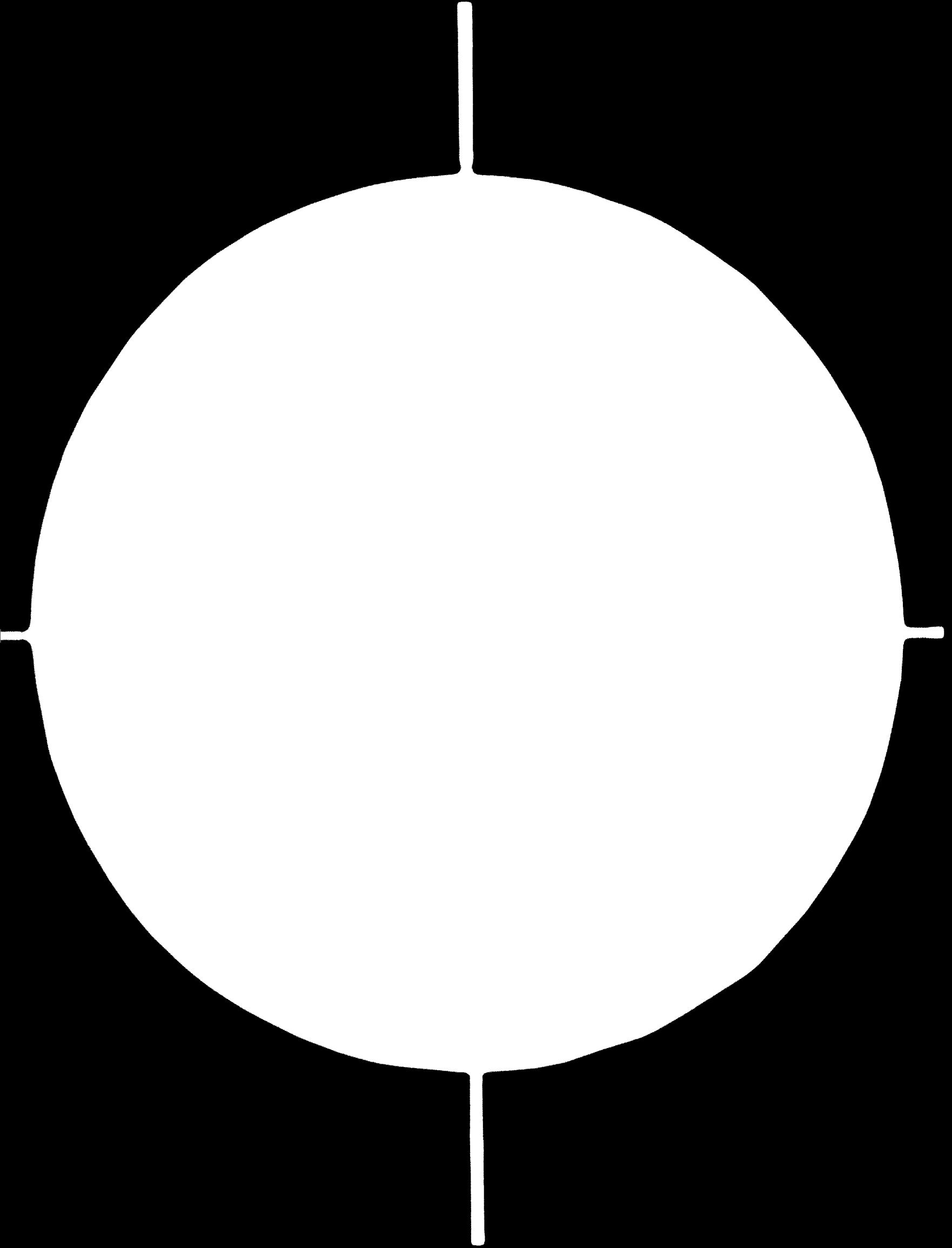
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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #21 Oil burner control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Ing. w. Oertli A. G. Zurich, Switzerland			
<u>FUNCTION</u> <u>FUNCION</u> Control oil burner and oil pre-heater		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Float switch on pre-heater tank	
<u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u> <u>ENCUADRO</u> Panel #21	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Panel includes starters, control transformer, relays, electronic equipment, push buttons and selector switch. Panel in good condition except for damage by rifle bullet.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Repair panel, replace parts damaged by bullet. Remove rust, and paint. Improve oil burner motor cable run.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 200

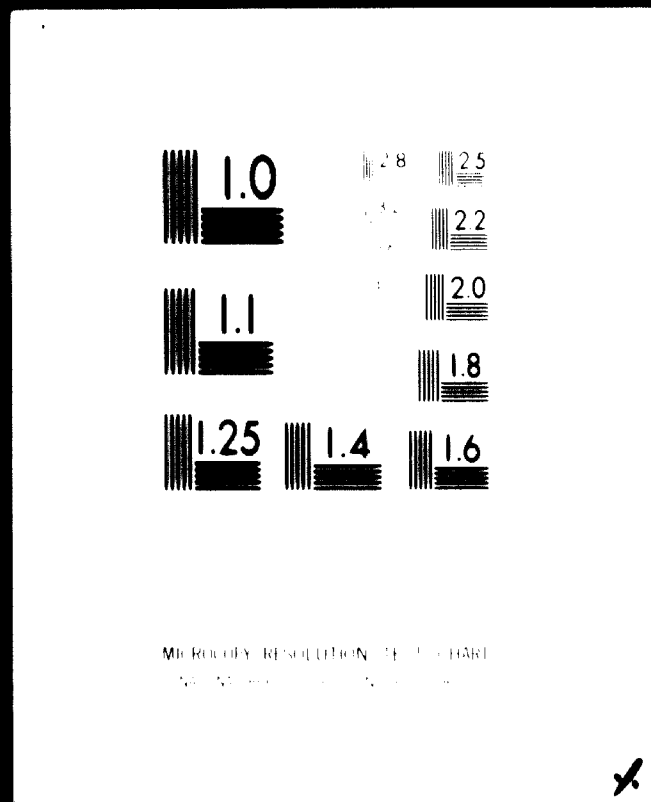
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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line B</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p style="text-align: center;">Oil Pre-heater</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p>			
<p>Oertli A. G. Dubendorf Zurich, Switzerland</p>		<p>400 liter P.O. No. 11640</p>	
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Pre-heat bunker "C" oil</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p style="text-align: center;">none</p>	
<p><u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>TRANSCADOR</u></p> <p>Panel #22</p>	<p><u>KW</u> <u>KW</u></p>	<p><u>MOTORS</u> <u>MOTORES</u></p> <p style="text-align: center;">Note: Pre-heater has an 8KW electric heater.</p>	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Equipment is not installed. Oil line to tank is not installed.</p> <p>Pre-heater is stored in main plant. Stored equipment is in fair condition.</p>			<p><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$</p> <p style="text-align: center;">500</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Remove rust from stored unit and paint. Install pre-heater, oil lines and connect to electrical panel.</p>			<p><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$</p> <p style="text-align: center;">800</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 56
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line B		Dryer Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Fan pulley 15" dia. Drive 28" c-c	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Dry fiber		Ductwork from air heater to fan	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #2	37	1765 rpm motor pulley 8.5" dia.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Duct for air heater missing. Material inlet duct on hand but not installed. Fan and ducts in fair condition, but rusty.			RD\$ 600
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Furnish missing 37KW 1765 rpm TEFC motor and install. Furnish and install motor pulley and flat belt. Furnish and install air heater ducts. Remove rust from existing equipment and paint.			RD\$ 1800

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line B		Dryer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Type 800/1200 duct 24" dia. The fiber dryer consists of a vertical double walled riser for up and down air flow, a loop and a duct up to the cyclone.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Dry fiber		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Several bullet holes are evident and the duct is rusty, but in fair condition.			RD\$ 1000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Repair bullet holes, remove rust and repaint dryer.			RD\$ 400

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~~EQUIPMENT INVENTORY AND EVALUATION~~
~~INVENTARIO DE EQUIPO Y EVALUACION~~

~~SHEET 51~~
~~51A~~

SYSTEM OR PRODUCT SISTEMA O PRODUCTO Bagasse Particleboard Line B		NAME OF EQUIPMENT NOMBRE DEL EQUIPO Dryer Cyclone	
EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION Pawert Ltd. Basel, Switzerland Model HZ42 83" diameter Cyclone mounted on structural steel frame on roof.			
FUNCTION FUNCION Dryer air separator		AUXILIARY EQUIPMENT NEEDED EQUIPO ADICIONAL NECESARIO none	
STARTER LOCACION UBICACION DEL PROVEEDOR none	KW KW none	MOTORS MOTORES none	
PHYSICAL STATE ESTADO FISICO There are shell holes in the cyclone, and it is in bad condition.			ESTIMATED COST VALOR ESTIMADO RD\$ 300
PARTS MISSING AND RESTORATION SERVICES PIEZAS FALTANTES Y RESTAURACION NECESARIA Repair shell holes in cyclone. Remove rust from equipment and paint. Add a dust collector to air discharge to prevent pollution.			ESTIMATED COST VALOR ESTIMADO RD\$ 800

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 59
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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line B</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Vibrating Screen</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p>			
<p>Franks and Freudenberg West Germany</p>		<p>4'-7" W. X 11'-0" L. X 7'-7" H. Length - 11 ft. Width - 4 ft. 7 in. Height - 7 ft. 7 in.</p>	
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Separate fiber from pith</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p>Discharge duct and flex connector at screen feed.</p>	
<p><u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u></p> <p>Panel #4</p>	<p><u>KW</u> <u>KW</u></p> <p>7.5</p>	<p><u>MOTORS</u> <u>MOTORES</u></p>	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>The discharge duct to the mixer is missing.</p> <p>The electrical connections to the drive motor are missing.</p>			<p><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p>RD\$</p> <p>700</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Install the discharge duct to the mixer. Install new flex connector at screen feed. Bake and rework motor and re-install drive. Provide electrical cable and connections to the motor. New V-belts are required.</p>			<p><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$</p> <p>1000</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line B		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Vibrating Feeder	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
JHst GmbH Munster, Westfield, Germany		No. MRI 933 450/300-15.00	
<u>FUNCTION</u> <u>FUNCION</u> Proportion fiber feed to mixer		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Chute to mixer	
<u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> Panel #4	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> 4.3 Amp 440 V. 1 phase	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Chute to mixer is missing. Feeder is in fair condition.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Remove rust and paint feeder. Install chute to mixer. Add duct cover and connect it to dust collector.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 450

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SHEET 62
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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line B</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p style="text-align: center;">Mixer Station</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p>			
<p>Draiswerke GmbH Mannheim, Germany</p>		<p>Equipment includes Mixer type KFSP 319, 99" Length X 28" diameter with batch weighing and air cylinder at intake; resin metering pump; type LR mixing tank 1.1m dia X 52" high with pump and batch paddle mixer (5HP vertical drive); batch mixer tank 27" dia. X 31" high with propeller agitator; hot water circulating pump .55 KW and heat exchanger tank 8" diameter X 36" high.</p>	
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Preparation of resins Addition of resin to fiber.</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p>	
<p><u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>PROPANADOR</u></p> <p>Panel #42</p>	<p><u>KW</u> <u>KW</u></p> <p>5 10 1/4HP 1/4HP 3/4HP</p>	<p><u>MOTORS</u> <u>MOTORES</u></p> <p>(tank agitator) Schorch gear motor 0.55 KW (hot water circulation pump) (mixer drive) (resin metering pump) (mixer discharge) 3.1A. (resin transfer pump) (batch mixer propeller type)</p>	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Two of the batch paddle mixers have no hot water jacket. All piping is needed for the resin pump. Tanks and machinery are rusty, but in fair condition.</p>			<p><u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">4000</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Add hot water jackets to two batch paddle mixers. Install piping for resin metering pump. Rework transfer pump (gear pump) clean rust and oil from inside batch paddle mixers. Equipment requires mechanical reconditioning. Remove rust from all equipment and paint. Add hot water piping to jacketed tanks. Bake and rework all motors and reduces. Remove rust on drives, replace V-belts and re-install all drives. Rework air cylinder.</p>			<p><u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">2000</p>

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SHEET 63
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line B		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Extrusion Machine (Press)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Extrusion machine platens are 52" long X 120" wide, heated by superheated water. Includes motor pulley 5" diameter X 12" face and machine pulley 52" diameter 11" wide belt, 104" c-c drive. Machine has variable speed drive.	
<u>FUNCTION</u> <u>FUNCION</u> Bagasse board extrusion		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Vent hood 60" X 75" and 24" diameter duct to fan above.	
<u>STARTER LOCATION</u> <u>UBICACION DEL</u> <u>ARRANCADOR</u> Panel #35	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> 7.2/15/25/31.4 KW 350/750/1200/1500 rpm Type RS 4521/6 Schorch motor, variable speed, 440 volt, 41 amp. Note the "M-G" set for this motor is written up in the Electrical Section of the report.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Hot water piping is not installed. Electrical installation on machine is not complete. There is no chain drive on feeder. Approximately 5% of assembly work is not completed. Compressed air lines not installed. Machinery is in fair condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 14,000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Install hot water and compressed air piping. Complete electrical work on machine. Complete assembly work of machine and install chain drive on feeder. Remove rust and paint extruder and hood. Bake and rework the motors. Supply new main drive belt and install drives.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 2,000

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SHEET 64
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line B		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Cut-off Saw (Extrusion Press)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> P. Hanssen Schweighouse West Germany			
<u>FUNCTION</u> <u>FUNCION</u> Cut-off extruded board to desired length.		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> --	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> Panel #36 on machine	<u>KW</u> KW 7.5	<u>MOTORS</u> <u>MOTORES</u> 3450 rpm 8 amp saw motor 2.3 amp 1800 rpm saw traverse drive (gear motor)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Machine is in fair condition, but with some rust. Run-out table and stacking equipment are missing.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Furnish and install run-out table and stacking equipment. Drain, clean, and refill P. I. V. gear box. Bake and rework motors and motor/reducer. Install drives. Connect plant compressed air to machine. Rework pneumatic cylinders. Remove rust, and paint equipment.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 4000

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SHEET 17
NO. 17

<p><u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line A</p>		<p><u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO</p> <p>Electrical Auxiliary Rotating Machinery for extrusion machine</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION</p> <p>Schorch Werke Rheydt, Germany</p>			
<p><u>FUNCTION</u> FUNCION</p> <p>Motor - Generator for speed control</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO</p> <p>Speed control motor</p>	
<p><u>STARTER</u> LOCACION UBICACION DEL ENCABOZADOR</p> <p>Panel #31</p>	<p><u>KW</u> KW</p>	<p><u>MOTORS</u> MOTORES</p> <p>Motor 41A type Vt 3820/2 3480 rpm Gen. 20/32 Amp. type PT 3818/2 3480 rpm Speed control motor 0.9/0.52 Amp type ZDBR-024 255/440V 1680/59 rpm</p>	
<p><u>PHYSICAL STATE</u> ESTADO FISICO</p> <p>Machine is a vertical shaft motor generator set. The machine is in good condition but has some rust. The generator - drive motor loop has low resistance to ground.</p>			<p><u>RESIDUAL VALUE</u> VALOR RESIDUAL</p> <p>RD\$</p> <p style="text-align: center;">300</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>No parts are missing. Dismantle, bake, and clean and relubricate bearings, paint M-G set, and reinstall. Check and correct ground in external wiring if any.</p>			<p><u>RESTORATION COST</u> COSTO DE RESTAURACION</p> <p>RD\$</p> <p style="text-align: center;">700</p>

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SHEET 65
NOIA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line B		Extruder Ventilator Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
K. Merz Maschinenfabrik		Axial Fan 60" dia. 60" high	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Extruder vent fan		none (duct included with extruder)	
<u>STARTER</u> <u>LOCACION</u> <u>DEL</u> <u>CONCADO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
	4	840 rpm Bauknecht	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Equipment in fair condition.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Remove rust, and paint fan and outside duct. Bake and rework motor and re-install fan impellor.			RD\$ 400

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line B		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #42 Mixer Control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Jöst GmbH Munster, Westfield, Germany			
<u>FUNCTION</u> <u>FUNCION</u> Control speed of mixer		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Rheostat box	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Panel has fuses, starters, relays, and operators controls. Panel is in good condition. Rheostat box is in good condition. Exterior wiring is corroded.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 275
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Rewire exterior wiring in pvc conduit. Paint panel and rheostat box.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 600

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line B		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #22 Oil burner control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Ing. W. Oertli A. G. Zurich, Switzerland			
<u>FUNCTION</u> <u>FUNCION</u> Control oil burner and oil pre-heater		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Float switch on pre-heater tank	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> Panel #22	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Panel in storage, good condition			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 200
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Mount and wire panel to oil burner, oil pre-heater and to supply (panel #2).			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 500

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line B		Electrical panel #35 Extrusion machine Control panel	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Richard Schramm GmbH Frankfurt Am Main		Mess - Steuer, Regeltechnik	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Machine Control Panels		Push button - meter panel on machine	
<u>STARTER LOCATION</u> <u>UBICACION DEL INICIAADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Inside panel		Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Wall mounted panel contains fuses, starters, current transformers, terminals and main control switch. Panel is protected by tight door. Panel is in excellent condition. Outgoing cables are installed in an unsafe manner.			RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
No parts missing. Reinstall outgoing cables.			RD\$ 300

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Bagasse Particleboard Line B		Electrical Panel #36	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
P. Hannsen Schweighouse, West Germany		Extrusion machine cut-off saw control panel	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Cut-off saw control		Hydraulic valves and limit switches	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>APARATADO</u> on machine	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
		Motors are listed with mechanical equipment.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Panel mounted on side of machine. Wiring has been revised slightly.			RD\$ 150
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Cover missing. Supply dust tight cover and revise wiring in workmanlike manner.			RD\$ 150

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 70
HOJA

<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line B</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Electrical Auxiliary Rotating Machinery for Extrusion Machine</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p>			
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Motor - Generator for speed control</p>		<p><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p>Speed control motor</p>	
<p><u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u></p> <p>Panel #35</p>	<p><u>KW</u> <u>KW</u></p> <p>18.8 14.7</p>	<p><u>MOTORS</u> <u>MOTORES</u></p> <p>Motor 41A. type Vt 3820/2 3480 rpm Gen 20/32 Amp. type PT 3818/2 3480 rpm</p>	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Machine is a vertical shaft motor generator set. The machine is in good condition but has some rust. The motor has low resistance to ground.</p>			<p><u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">300</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Speed control pilot motor 0.9/0.52 Amp is missing. Re- place it. Dismantle, bake, clean, and relubricate bear- ings, and paint M-G set. Locate ground and correct it.</p>			<p><u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">750</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 71
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line C		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Belt Conveyor	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Stohr Transportenlagen Offenbach, Germany		#N 9307A-80AA with cleated rubber belt 18" wide x 8.0m. c-c. Idlers 1.0m. c-c. Designed to be portable.	
<u>FUNCTION</u> <u>FUNCION</u> Briquette conveyor		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>PROPULSOR</u> none	<u>KW</u> <u>KW</u> 1/2	<u>MOTORS</u> <u>MOTORES</u> Gearmotor, Schorch	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Conveyor in fair condition.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold, do not restore.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 72
NO. 11

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line C		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Hammermill (Novorotor)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Hammermill/Novorotor #650/500 twin mill 27" W. x 64" Lg., mill pulleys 15" dia.	
<u>FUNCTION</u> <u>FUNCION</u> Shred briquettes		<u>AUXILIARY EQUIPMENT REQUIRED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Inlet chute and suction funnel	
<u>STARTER</u> <u>LOCATION</u> <u>ORIGEN DEL</u> <u>PROPULSOR</u> none	<u>KW</u> <u>KW</u> 37 37	<u>MOTORS</u> <u>MOTORES</u> Motor 1770 rpm Schorch Motor 1770 rpm Schorch	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Motors, pulleys and belts are missing. There is no service platform around mill.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 2800
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold as is, do not restore.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ none

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~~EQUIPMENT INVENTORY AND EVALUATION~~ INVENTARIO DE EQUIPO Y EVALUACION

~~SHEET~~ 73
HOJA

SYSTEM OR PRODUCT SISTEMA O PRODUCTO Bagasse Particleboard Line C		NAME OF EQUIPMENT NOMBRE DEL EQUIPO Bagasse Fan	
EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland			
FUNCTION FUNCION Convey bagasse from hammermill to dryer		AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO 12" diameter pipe to cyclone	
STARTER LOCACION CONDICION none	KW KW 22	MOTORS MOTORES 1775 rpm Schorch	
PHYSICAL STATE ESTADO FISICO Inlet duct from hammermill is missing. Motor, pulley, and drive belt are missing. Duct to cyclone is missing. Drive guard is missing. Fan is in fair condition.			RESIDUAL VALUE VALOR RESIDUAL RD\$ 150
DATA MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA Hold as is; do not restore.			RESTORATION COST COSTO DE RESTAURACION RD\$ none

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~~EQUIPMENT INVENTORY AND EVALUATION~~ INVENTARIO DE EQUIPO Y EVALUACION

~~SHEET 74~~
HOJA

<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line C</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p style="text-align: center;">Bagasse Cyclone</p>	
<p>EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Pawert Ltd. Basel, Switzerland</p>		<p>Installed over dryer fan duct position, 4 ft diameter (for bagasse fan).</p>	
<p>FUNCTION FUNCION</p> <p>Air separator</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO</p> <p style="text-align: center;">Air valve</p>	
<p>STARTER LOCATION OPERACION DE FUNCIONADO</p> <p>none</p>	<p>KW KW</p>	<p>MOTORS MOTORES</p> <p style="text-align: center;">none</p>	
<p>PHYSICAL STATE ESTADO FISICO</p> <p>Cyclone is in fair condition, but is rusty.</p> <p>Air valve is in poor condition.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">100</p>
<p>PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Hold as is; do not restore.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">none</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 18
FOLIA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line A		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #41 Mixer Control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Jüst GmbH Munster, Westfield, Germany			
<u>FUNCTION</u> <u>FUNCION</u> Control speed of mixer		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Rheostat box	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Wiring is in bad shape. External wiring in trough corroded away by caustics. Indicating lights broken. Rheostat box good condition. Handle missing. Value of spare panel to be used - - - - -			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 275
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Use control panel in storage to replace the above panel. Rewire in pvc conduit overhead. Paint panel and rheostat box.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 600

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 75
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line C	<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Oil Pre-heater	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>		
Oertli A G Dubendorf, Zurich, Switzerland	400 liter P.O. 11640	
<u>FUNCTION</u> <u>FUNCION</u> Pre-heat bunker "C" oil	<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> none	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> none
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Pre-heater is stored in main building, and is in fair condition. It has some rust on the surface.		<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 250
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold as is; do not restore.		<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 76
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Bagasse Particleboard Line C		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Dryer Fan	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland		Fan pulley 15" diameter	
<u>FUNCTION</u> FUNCION Dry the fiber		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO Ductwork from air heater to fan	
<u>STARTER</u> LOCATION UBICACION DEL APANCADOR none	<u>KW</u> KW 37	<u>MOTORS</u> MOTORES 1765 rpm	
<u>PHYSICAL STATE</u> ESTADO FISICO Equipment missing includes the motor, pulley, drive belt, and fan inlet duct from air heater to fan. Fan is in fair condition.			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 550
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Hold as is; do not restore.			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 77

HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line C		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Dryer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		The complete fiber dryer consists of a vertical double walled riser for up and down air flow, a loop and duct up to the cyclone. Type 800/1200, duct 24" diameter.	
<u>FUNCTION</u> <u>FUNCION</u> Dry fiber		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER LOCATION</u> <u>UBICACION DEL ARRANCADOR</u> none	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Top half of duct (24" dia.) to cyclone is missing. The existing duct has some holes and rust, but is otherwise in fair condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 900
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold as is; do not restore.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 78
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Bagasse Particleboard Line C		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Dryer Cyclone	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Model HZ 42 83" diameter	
<u>FUNCTION</u> <u>FUNCION</u> Dryer air separator		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> none	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Note: Cyclone support structure on the roof is all there is of this installation.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 50
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold as is; do not restore.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ none

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HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Bagasse Particleboard Line C		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Vibrating Feeder	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Jüst GmbH Munster, Westfield, Germany		No. MRI 933 450/300 - 15.00	
<u>FUNCTION</u> FUNCION Proportion fiber feed to mixer.		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO Chute to mixer	
<u>STARTER</u> LOCATION UBICACION DEL ARRANCADOR none	<u>KW</u> KW	<u>MOTORS</u> MOTORES 4.3 Amp 440V 1 phase	
<u>PHYSICAL STATE</u> ESTADO FISICO Feeder is in fair condition, but is not installed. Chute to mixer is missing.			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Hold as is; do not restore.			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 80
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Veneer Line		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Log Vats (Three units)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		Three outdoor concrete vats 12 ft wide X 38 ft long X 12 ft deep, 16" wall thickness. Located between crane rails west of lathe area.	
<u>FUNCTION</u> <u>FUNCION</u> Soak veneer logs		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>AVANZADOR</u> none	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Vats are in good condition. There are no hot water connections to vats.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 2000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Add hot water connections.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 300

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HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Veneer Line		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Vat Water Pump	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Worthington Corp. Harrison, N.J.		This is a vertical turbine pump 6 ft. submersible. Has been dis- assembled.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Circulate hot water for vats		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none	16	1800 rpm frame 286 UP, vertical hollow shaft U. S. motor	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Pump and motor are disassembled, but in good condition.			RD\$
No starter is provided.			100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Bake and rework motor.			RD\$
Assemble and install pump.			800
Provide starter and connect to supply and motor.			800

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SHEET 82
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Veneer Line		Gantry Crane	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Demag (Wissneth and Co. K.G.)		Rated 5000 KG 51'6" c-c crane rails. 20'0" crane rail to top of trolley rail. Hoist: 14 meters/min. Crane constructed of pipe and structural steel with hoist rail full width. Cable reel on one leg to provide power. Hoist block is raised by two hoist drives.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Handle logs in wood yard.		Rails on concrete foundation.	
<u>STARTER LOCATION</u> UBICACION DEL ARRANCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
on crane		Name plate data unavailable. Mfr., Demag. Dual motor drive type P 50-2	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL VALUE</u> VALOR RESIDUAL
Crane cab is incomplete. 50% of controls and power supply are missing; including, trolley wire and collectors; pendant push button controls; power cable to reel from supply. Crane in fair condition, but rusty.			RD\$ 8000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION COST</u> COSTO DE RESTAURACION
Remove rust and paint all steel. Complete and replace all missing electrical parts. Complete cab. Bake and rework motor. Reinstall drive.			RD\$ 3000

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HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneer Line		Veneer Lathe	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Ritter, Fleck, and Roller Berlin N 20, Germany		Log length	112" max.
		Log diameter	50" max.
		Large chuck diameter	12"
		Small chuck diameter	7.5"
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Peeling veneer		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>MOTOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
	65	DC motor Elektrodienst 275 volt 276 Amp type 6M66/700	
	5.5	Siemens 1145 rpm 22 Amp (chuck drive)	
	2.2	Siemens (knife carriage drive)	
		See electrical report for rotary converter	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$
Lathe is in fair condition.			12,000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$
Bake and rework all motors. Reinstall drives (replace V-belts). Degrease entire machine, paint, and lubricate.			1,000

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 84
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneer Line		Veneer Reel and Clipper	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Ritter, Fleck, and Roller Berlin N20, Germany		Reel Model AV-27 Unwind Model ABV-27 Clipper Model LSZ-27	110" Reel 110" Reel Knife 105" long
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Reel, unwind, and cut veneer sheets		Feed belts 4" wide x 7 ft. c-c Discharge belts 4" wide x 10 ft. c-c	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>APANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machines	10 1.5 0.75	For 6 veneer reels (inaccessible) Motor variable speed for reel Motor variable speed 3.5/8.6 Amp Elektrodienst for unwinder 1715 rpm Schorch type KR 537/4 Gearmotor 840 rpm Schorch type KRO 551/A-M for discharge belt drive	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Air system for clipper operator is missing. Feed belts, discharge belts, and outfeed table are missing. Condition of machines is fair.			RD\$ 3000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Replace holddown rubber rollers on clipper. Install feed belts, discharge belts, and outfeed table. Bake and rework all motors. Reinstall all drives. Install air system for clipper operator. Rework gear reducers and relubricate. Degrease, lubricate, and paint machines.			RD\$ 2000

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~~EQUIPMENT INVENTORY AND EVALUATION~~ ~~INVENTARIO DE EQUIPO Y EVALUACION~~

~~SHEET 49~~
~~HOJA~~

<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard Line A, B, and C</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p style="text-align: center;">Air Conditioner</p>	
<p>EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Mfr. unknown</p>		<p>30 Ton/Hr. Includes 3 motor/compressors 7.5 KW each and a water pump to pump water to a cooling tower on the roof. Control Cutler-Hammer Size 0 starters on wall.</p>	
<p>FUNCTION FUNCION</p> <p>Maintain temperature control in resin storage room.</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAN INCLUIDO</p> <p>Water pump for cooling water Cooling tower Condenser coils 36" X 60"</p>	
<p>STARTER LOCATION UBICACION DEL ARRANCADOR</p>	<p>KW KW</p>	<p>MOTORS MOTORES</p>	
<p>Near machine</p>	<p>7.5 2.</p>	<p>Three Compressor Motors Water Pump</p>	
<p>PHYSICAL STATE ESTADO FISICO</p> <p>Fan drive motor for cooling tower is missing. Parts missing from cooling tower. Piping is incomplete. External wiring is poor quality. Compressors are rusty and in poor condition.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">1000</p>
<p>PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Supply and install motor for cooling tower fan. Replace the cooling tower. Completely overhaul 3 compressors, replace seals, and recharge refrigerant. Complete piping of air conditioner. Replace the external electrical wiring.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">1300</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 85

HOJA _____

<p style="text-align: center;"><u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO</p> <p>Veneer Line</p>	<p style="text-align: center;"><u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO</p> <p>Veneer Dryer</p>	
<p style="text-align: center;"><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION</p> <p>"Tromag" Trockenapparte & Maschinenbau Bez. Kassel, Germany</p> <p style="text-align: right;">Dryer has 8 access doors; 8 hot air circulating fans.</p>		
<p style="text-align: center;"><u>FUNCTION</u> FUNCION</p> <p>To dry veneer</p>	<p style="text-align: center;"><u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO</p> <p>Exhaust air ducts 20 veneer push trucks</p>	
<p style="text-align: center;"><u>STARTER</u> LOCACION DEL ENCENDIDOR see panel #12</p>	<p style="text-align: center;"><u>KW</u> KW</p> <p>3 7.5 10 15</p>	<p style="text-align: center;"><u>MOTORS</u> MOTORES</p> <p>All Pfalz-Elektra Caiserslautern motors. 11/14 Amp 860/1720 rpm type 160M-8/4 (chain chute con.) Quan. (4) 1730 rpm type 112M-4 (exhaust fans) Quan. (5) 1800 rpm type KR W 731/4M Quan. (1) 1800 rpm type KR W 731/4M (hot air cir. fans) Quan. (2) 1800 rpm type KR W 731/4M</p>
<p style="text-align: center;"><u>PHYSICAL STATE</u> ESTADO FISICO</p> <p>Dryer has never been used. Four 24" dia. exhaust fan ducts through roof are missing. Four access doors have temp. gauges damaged. The dryer has been subjected to considerable water damage. The horizontal baffle is almost corroded. The chain grate (conveyor) is corroded in spots. There are no electrical controls or temperature controls on the machine. The dryer is in bad condition.</p>		<p style="text-align: center;"><u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$</p> <p style="text-align: center;">13,000</p>
<p style="text-align: center;"><u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Replace damaged temperature gauges. Replace 25% of the dryer passageways. Replace 10% of the heating coils. Replace the horizontal baffle. Replace the chain grate. Install air ducts through roof for exhaust fans. Install temperature controls and electrical controls on the dryer. Bake and rework all motors. Replace V-belts and reinstall circulating fan drives on missing equipment list. Insulate entire dryer.</p>		<p style="text-align: center;"><u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$</p> <p style="text-align: center;">15,000</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 86
NO. 1A

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneer Line		Re-clipper	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Ritter, Fleck, and Roller Berlin N20, Germany		Model MSE-27 No. JAHR 2103/1960 106" knife	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Cut veneer sheets		Electrical controls: 2 speed MSE 31531 110V-220V 20Amp transformer type Transformer 440V 3.8A 220V 7.5A 1650 V.A.	
<u>STARTER</u> <u>LOCACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	2.2	1140 rpm type K631/4M Schorch	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Re-clipper and electrical panel are in fair condition. Infeed and outfeed tables are missing.			RD\$ 1000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Bake and rework motor. Degrease, lubricate, and paint machine. Recondition, and repaint controls Fabricate and install work tables.			RD\$ 300

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 87
HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO	<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO
Veneer Line	Veneer Jointer
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION	
Ritter, Fleck, and Roller Berlin N20, Germany	Model 13F 27No. Jahr 2105/1961 Veneer lineup bars, planer heads (coarse and fine) 5" dia. X 6" long. Machine bed 9'0" Carriage drive V-pulley 6" dia. Driven pulley 8" dia.
<u>FUNCTION</u> FUNCION	<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO
To machine edges of veneer for joining.	none
<u>STARTER</u> LOCACION UBICACION UBICACION	<u>MOTORS</u> MOTORES
3 4/5.5 2.95 0.5	Quantity (2) 3485 rpm type KR631/2M Schorch (planer hds) 1740/3500 rpm 7.25/9.0 Amp - Schorch (carriage) 1680 rpm 5.5 Amp (hydraulic pump) 1700 rpm type GD 213 Gearmotor-Adolph Dietz (glue roller)
<u>PHYSICAL STATE</u> ESTADO FISICO	
About 10% of parts of this machine are missing. These include "B" V-belt 24" c-c, glue head and planer knives. There is no dust collection system. There is no feed table. 20% of the controls (limit switches etc.) are missing. Veneer line up bars poor quality. The machine is in fair condition.	
<u>RESIDUAL VALUE</u> VALOR RESIDUAL	
RD\$ 1200	
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA	
Install glue head and planer knives. Install dust collector system and cutter heads. Degrease, lubricate and paint machine. Bake and rework all motors. Install drives and new V-belts.	
<u>RESTORATION COST</u> COSTO DE RESTAURACION	
RD\$ 800	

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 88
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneer Line		Veneer Taping Machine	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Adolph Friz Stuttgart, Germany		Type ZMP 3 No. 475 has two contact making temperature gauges.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Tape-join veneer edge to edge		Infeed and outfeed tables Controls: motor switch, wey-delta starting	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> on machine	<u>KW</u> KW 1.5	<u>MOTORS</u> <u>MOTORES</u> 1700 rpm	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Machine is in fair condition. Control is in fair condition.			RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Degrease, lubricate, and paint machine. Furnish infeed and outfeed tables. Bake and rework motor. Reinstall drive.			RD\$ 650

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 89
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneer Line		Veneer Taping Machine	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Adolph Friz Stuttgart, Germany		Type ZMP 3 No. 476 has 2-contact making temperature gauges.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Tape-join veneer edge to edge		Infeed and outfeed tables Controls: motor switch, wye-delta starting	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	1.5	1700 rpm	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Machine is in fair condition. Motor starter switch is burned. Control otherwise in fair condition.			RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Degrease, lubricate, and paint machine. Furnish infeed and outfeed tables. Replace burned motor switch. Bake and rework motor. Re-install drive.			RD\$ 700

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 90
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Veneer Line		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Veneer Joiner	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Adolph Friz Stuttgart, Germany		Model 7K20 Mach. No. 193 Comm. No. 604	
<u>FUNCTION</u> <u>FUNCION</u> Glue-join veneer edge to edge		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Infeed and outfeed tables	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>AVANZADOR</u> on machine	<u>KW</u> <u>KW</u> 4	<u>MOTORS</u> <u>MOTORES</u> Varidrive motor	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Poor workmanship on controls and cabling. Supply cable and conduit are cut off and buried in the concrete. Machine requires work table. Infeed and outfeed tables are missing. Machine is in bad condition.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Machine requires complete dismantling and overhaul, and painting. Add work table. Bake and rework motor, and replace belt on varidrive. Pull in new electrical cable and connect to controls. Furnish infeed and outfeed tables.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 1200

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneer Line		Electrical Panel #1 Distribution board for green veneer and dryer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Siemens - Schuckertwerke Erlangen, Germany			
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Fusegear		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>APARATADO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
See plant layout		Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$
Panel 100 cm wide, 200 cm high, 45 cm deep. Metal clad. Contains main sw, fuses, bus bar, and terminals. Rifle bullet went through back and upper bus area.			500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$
2-60A fuses, 21-25A fuses, 3-200A fuse holders and fuses are missing. Install fuses and install fuse holders and connect. Repair rifle damage. Remove rust, and paint panel. Locate and remove ground in bus.			350

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SHEET 92
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Veneer Line		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #11 Lathe control and M-G set	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Electro-dienst Dipl Ing Riba K. G. Neuweid, Rhein, Germany		#60228/4 control 60228/1 motor 60228/2 generator	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Control speed and load of veneer lathe		Lathe operators panel on lathe (load ammeter is broken)	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> Panel #11	<u>KW</u> <u>KW</u> 80 76	<u>MOTORS</u> <u>MOTORES</u>	
		Motor Type DG80/4 No. 60228/1.88 pf 440v 31 60 hz 1740 rpm amp 130 Gen. Type 676/4 No. 60228/2 volt 275 amp 276 1740 rpm frem derr 220v	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$
Control panel includes relays, rheostat, and oil circuit breaker (starter) fuses, control transformer. Panel is in good condition and complete. M-G set (see under motors) - Gen. -Drive motor loop and generator fields indicate low resistance grounds. Otherwise M-G set is in good condition.			700
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$
Replace indicating lamps. Replace or repair broken am- meter. Dismantle and bake M-G set, clean and lubricate bearings, repaint M-G and panel.			750

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SHEET 93
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Veneer Line	<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #12 Veneer dryer motor control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Panel built up by installation, contractor's electricians using Siemens		
<u>FUNCTION</u> <u>FUNCION</u> Controls 8-cir. fans 4-exhaust fans and 1 - conveyer motor	<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>CONCADO</u> Panel #12	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with mechanical equipment
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> The controls for 9 circulating fans have 3 contactors each, for two speed operation. Contactors not connected to motors; push button panel not wired. Cables not connected at motor end.		<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 200
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Starter for conveyer is missing. Install starter and cable to motor. Install and connect cable from distribution panel to this panel. Inspect, clean, and connect all other starters to their respective motor cables. Replace reset buttons instarters. Wire up push buttons and controls.		<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 1200

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HOJA

<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Veneer Line		Electrical Panel #6 Distribution board for Panel manufacture	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Siemens Schuckertwerke Erlangen, Germany			
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Fusegear		none	
<u>STARTER LOCATION</u> UBICACION DEL APANCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
		Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL VALUE</u> VALOR RESIDUAL
Metal clad panel 130 cm wide, 200 cm high, and 45 cm deep contains, main switch, fuses, bus bar and terminals. Panel is in good condition except bus is grounded. Some outgoing cables are grounded.			RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION COST</u> COSTO DE RESTAURACION
2- 80A fuses and 14-25A fuses are missing. Remove rust and paint panel. Replace grounded cables.			RD\$ 400

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~~EQUIPMENT INVENTORY AND EVALUATION~~
~~INVENTARIO DE EQUIPO Y EVALUACION~~

SHEET 50

~~NOVA~~

SYSTEM OR PRODUCT SISTEMA O PRODUCTO Bagasse Particleboard Line B		NAME OF EQUIPMENT NOMBRE DEL EQUIPO Belt Conveyor	
EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION			
Stohr Transportanlagen Offenbach, Germany		#N9307A-80AA, has cleated rubber belt 18" wide x 8.0m c+c. Idlers 1.0m c-c portable unit	
FUNCTION FUNCION Briquette conveyor		AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAN INCLUIDO none	
STARTER LOCATION UBICACION ESTANDAR Panel #2	KW KW 1/2	MOTORS MOTORES Gearmotor Schorch	
PHYSICAL STATE ESTADO FISICO Conveyor not installed. It is stored in machine shop and is in fair condition.			RESIDUAL VALUE VALOR RESIDUAL RD\$ 300
PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA Clean and paint. Provide support with wheels. Bake and rework motor/reducer and re-install drive. Provide portable cord for the conveyor, and connect to switch and motor. Lubricate belt idlers.			RESTORATION COST COSTO DE RESTAURACION RD\$ 750

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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Veneer Line		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Electrical Panel #61 Veneer jointer operator's control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION (RFR) Fleck, Ritter and Roller Berlin N20, Germany			
<u>FUNCTION</u> FUNCION Operator's control		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO Limit switches on machine	
<u>STARTER LOCATION</u> UBICACION DEL ARRANCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES Motors are listed with mechanical equipment.	
<u>PHYSICAL STATE</u> ESTADO FISICO Panel has push buttons, switches, disconnect, starters, and relays. Panel equipment and wiring badly damaged by rifle bullet. Panel of no value only machine wiring useable.			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Replace panel and connect to motor and control runs.			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ 1200

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>	<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>
Veneered Bagasse Board and Plywood	Resin Preparation Station (Line C Mixer Station)
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>	
Draiswerke GmbH Mannheim, Germany	Equipment includes Mixer type KFSP 319, 99"L. X 28"dia. with batch weighing and air cyl. at intake; resin metering pump; type LR mixing tank 1.1m dia X 52" high with pump and batch paddle mixer (5HP vertical drive); Batch mixer tank 27" dia X 31" high with propeller agitator. Hot water circulating pump .55 KW and heat exchanger tank 8" diam X 36" high.
<u>FUNCTION</u> <u>FUNCION</u>	<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>
Preparation of resin only.	See equipment above.
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>APARATADO</u>	<u>MOTORS</u> <u>MOTORES</u>
Panel #43	5 (tank agitator) Schorch gear motor 10 (mixer drive) 1/4HP (resin metering pump) 1/4HP (mixer discharge) 3.1A (resin transfer pump) 3/4HP (batch mixer propeller type) 0.55 KW (hot water circulation pump)
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>	
2 - Batch paddle mixers have no hot water jacket. All piping is needed for resin pump. Tanks and machinery are rusty, but in fair condition.	
<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>	
RD\$ 3000	
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>	
Restore only the equipment required for resin preparation for veneering bagasse board and plywood. Do not restore main mixer. Add hot water jackets to 2 Batch Mixers. Install piping for resin metering pump. Rework transfer pump (gear pump). Clean rust and oil from inside Batch Paddle Mixers. The resin preparation equipment requires mechanical reconditioning. Remove rust from the equipment and paint. Bake and rework the motors driving resin preparation equipment.	
<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>	
RD\$ 1500	

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Glue Spreader	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Adolph Friz Suttgart, Germany		Model LAG Mach. No. 277 Comm. No. 4188	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Resin Coating of Bagasse Board		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>TRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	2.4	1700 rpm 3.6 Amp Type NKO 53e/4 (mfr.) AEG	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Equipment missing includes: Board feed table, lay-up table, veneer feed table and conveyor to loader. The handles for the rolls are missing. The control panel is not connected to the electrical supply. The central panel is in good condition. The machine is in fair condition.			RD\$ 1200
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Install a board feed table, lay-up table, veneer feed table, and conveyor to loader. Install handles for rolls. Install conduit and electrical cable to machine. Replace the rubber covering on the rolls. Bake and rework motor and reducer. Degrease, lubricate and paint the machine.			RD\$ 2400

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Small Glue Spreader	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Ritter, Fleck, and Roller Berlin, Germany		Model CL14 2 roller unit with 56" wide rolls	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Resin coating of Bagasse Board		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>PROPULSOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	1.2	1630 rpm Type D30/4	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> <u>RD\$</u>
The equipment missing includes: Board feed table, lay-up table, and veneer feed table. Electrical panel is in fair condition but the power connec- tion is incomplete. The machine is in fair condition.			1000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> <u>RD\$</u>
Install a board feed table, a lay-up table and a veneer feed table. Install the conduit and electrical cable to the machine. Bake and rework the motor and reducer. Degrease, lubricate, and paint the machine.			1800

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<p><u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO</p> <p>Veneered Bagasse Board and Plywood</p>	<p><u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO</p> <p>Multiple Opening Plywood Press (including Charger and Unloader)</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION</p>		
<p>Seimplekamp</p> <p style="margin-left: 400px;">8 Opening Press with one main cylinder 8 Opening Elevating charger 8 Opening Automatic Unloader</p>		
<p><u>FUNCTION</u> FUNCION</p> <p>Form and cure Veneered Bagasse Boards.</p>	<p><u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO</p> <p>Hydraulic pump with 40" V-belt pulley. 3 cylinder oscillating pump with open crank.</p>	
<p><u>STARTER</u> LOCACION UBICACION DEL ARRANCADOR operators Panel #62</p>	<p><u>KW</u> KW</p> <p>18</p> <p>1</p> <p>1.2</p>	<p><u>MOTORS</u> MOTORES</p> <p>860 rpm (Hyd. pump) Drive Pulley 10" dia. 5 D section V-belts.</p> <p>Gear motor (Elevating Charger)</p> <p>Vertical Gear motor 2.5 Amp (Unloader)</p>
<p><u>PHYSICAL STATE</u> ESTADO FISICO</p> <p>Equipment that is missing includes: Hot water hoses to each platen, all hydraulic connections, electrical connections on press, loader and unloader. (limit switches, etc.) Entire press is badly corroded. Press cylinder is standing in water and is corroded. The press steam plates need replacement. The press is in bad condition.</p> <p style="text-align: right;">(cont.)</p>		<p><u>RESIDUAL</u> VALOR RESIDUAL</p> <p>RD\$</p> <p>6000</p>
<p><u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Clean-up and rework hydraulic pump. Install hot water hoses and hydraulic lines. Completely recondition press, press cylinder, charger and unloader. Remove rust and paint. Replace or repair press platens. Install pusher assembly in charger. Install all limit switches and electrical wiring on the ma- chines.</p> <p style="text-align: right;">(cont.)</p>		<p><u>RESTORATION</u> COST COSTO DE RESTAURACION</p> <p>RD\$</p> <p>5300</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Multiple Opening Plywood Press (continued)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> The charger has no pusher. The unloader is badly rusted. The caul plates are badly corroded. Press has no ventilation system			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ See Sheet 99
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Install and connect cables to motors. Degrease, lubricate and paint all equipment. Bake and rework motors and gear reducers. Re-install all drives. Install new V-belts on hydraulic pump. Replace the caul plates. Install fume hood, fan and ducts over press.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ See Sheet 99

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SYSTEM OR PRODUCT SISTEMA O PRODUCTO		NAME OF EQUIPMENT NOMBRE DEL EQUIPO	
Veneered Bagasse Board and Plywood		Sheet Saw (Skinner and Trim Saw)	
EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION			
P. Hanssen Schweighouse, Germany		Model B-RH Consists of frame with tracks and moving table and drive and four saws.	
FUNCTION FUNCION		AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO	
Skinner and Trim Saw		none	
STARTER ACCION ACCION Panel #63	KW KW 2	MOTORS MOTORES 8.4 Amp 3600 rpm Type BSF85A Quan. (4) (Saw motors) Gear motor (Table drive)	
PHYSICAL STATE ESTADO FISICO			RESIDUAL VALUE VALOR RESIDUAL
There is no sawdust collection system. The saw blades are missing. There is no air connection for hold down clamp, arm cylinder. The machine is in fair condition.			RD\$ 1600
PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA			RESTORATION COST COSTO DE RESTAURACION
Install dust collection pipes. Install air connections. Furnish 4 saw blades. Bake and rework motors. Re-install table drive Degrease, lubricate, and paint machine. Clean and lubricate air cylinder.			RD\$ 800

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Two Double Cut-off and Squaring Saws	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Heinrich Huellhorst Maschinenfabrik Bad Oeynhausen, Germany		2 saws each, squaring bed. Panel is handled and moved through saw by hand. Manual switch for motor control.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Skinner and trim Saws for Boards		none	
<u>STARTER LOCATION</u> <u>UBICACION DEL MANEJADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	3 3	(saw motor) (saw motor)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
There is no sawdust collection system. Manual starting switch missing on one saw. Wooden overlay on bed is rotted. The electrical supply cable is not connected.			RD\$ 1300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Replace rusty saw blades. Replace wooden overlay. Bake and rework motors. Degrease, lubricate and paint machine. Install dust collection heads and ducts.			RD\$ 400

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Three Drum Sander	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Boettcher & Gessner Hamburg, Germany		Model No. US 125 Hag. No. 2577 LFD No. 12496 49" wide Control panel consists of a series of manual switches. 3-4" Ammeters for sander drum loads.	
Starkstrom - Gummersbach (control panel)			
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Sand plywood sheets		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>MOTOR</u> <u>on</u> <u>machine</u>	<u>KW</u> <u>KW</u>	(All Siemens motors) (Sander drum) (Sander drum) 1730 rpm 14 amp (Sander drum) 1.4/1.7/25KW840/1115/1700 rpm type R54-864 (fd.mtr) Bed adjustment motor	<u>MOTORS</u> <u>MOTORES</u>
	10		
	7.5		
	5.5		
	0.8		
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Machine sands top of panel only on one pass. Feed belt has rotted rubber. Machine is in bad condition. Electrical control panel is in bad condition. No Sander dust collector is provided.			RD\$ 3000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Disassemble entire machine, clean remove rust, lubricate and reassemble. Replace electrical control panel. Bake and rework motors. Reinstall drives. Replace rubber topped feed belt. Install dust collector and duct to header.			RD\$ 3000

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Veneered Bagasse Board and Plywood		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Cross Cut-off Saw (Swing Saw)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Fezer Maschinenfabrik GmbH Esslingen, Germany		Machine No. 31614 Saw diameter 16" Feed table 20" wide X 26 ft long Control switch on frame of machine.	
<u>FUNCTION</u> <u>FUNCION</u> Cut veneered boards to length		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> on machine	<u>KW</u> KW 2.3	<u>MOTORS</u> <u>MOTORES</u> 3600 rpm type KA TT	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Control switch is not connected to electrical supply. Machine is in fair condition. Control is in fair condition.		<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 250	
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Degrease, lubricate, and paint machine. Replace control switch handle. Install supply cable to control. Bake and rework motor.		<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 400	

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<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line B</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p style="text-align: center;">Hammermill</p>	
<p>EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Pawert Ltd. Basel, Switzerland</p>		<p>Hammermill/Novorotor #650/500 twin mill 27" wide X 64" long mill pulleys 15" diameter</p>	
<p>FUNCTION FUNCION</p> <p>Shred briquettes</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO</p> <p>Inlet chute and suction funnel</p>	
<p>STARTER LOCACION UBICACION DESCRIPCION</p> <p>Panel #2</p>	<p>KW KW</p> <p>37 37</p>	<p>MOTORS MOTORES</p> <p>Motor 1770 rpm Motor 1770 rpm required motor pulleys 15" diameter</p>	
<p>PHYSICAL STATE ESTADO FISICO</p> <p>Equipment is in fair condition, except rusty. Inlet chute has bullet holes. Drive motors are missing.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p>RD\$</p> <p style="text-align: center;">3000</p>
<p>PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Remove rust and paint. Provide 2 37KW 1770 rpm TEFC motors. Install motor pulleys. Provide drive belts and install drive. Fabricate and install belt guard. Repair holes in ducts. Inspect and renew screen if required.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p>RD\$</p> <p style="text-align: center;">1600</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Hydraulic Single Opening Cold Press	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
G. Joos Pfalzgrafenweiler Wurt, Germany		Machine No. 902 Max pressure 600 atm. opening 32" platen 49" X 201"	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Press glued sheets together		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ENCENDIDO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	3	Hydraulic power pack motor	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Press is end loading and of very light construction. Press is in fair condition. Electrical control is in good condition.			RD\$ 1100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Wash, remove rust, and paint machine. Disassemble and flush hydraulic system.			RD\$ 200

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Hydraulic Single Opening Hot Press	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Robert Burkle & Company Spezielmachinenfabrik Freudenstadt, Germany		Model No. SR240 132/260 order No. 34435/60 600 Atm. max. opening 7" Platen 52" X 102" Control and operator's push button on machine. Contact making pressure gauge 630 Kg/cm ²	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Plywood press		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>TRANSCADOR</u> on machine	<u>KW</u> <u>KW</u> 4 4	<u>MOTORS</u> <u>MOTORES</u> Hydraulic Pump Motors 1730 rpm 7.7 Amp vertical Schorch 1730 rpm 7.7 Amp vertical Schorch	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 4000
Platens require cleaning. Temperature gauges are broken. Control panel has good quality wiring. Hot water is connected, but poor insulation job.			
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 700
Clean and polish platens. Remove rust and paint machine. Replace temperature gauges. Replace water pipe insulation. Bake and rework motors. Flush hydraulic system and replace fluid.			

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Boards		Five Opening Hydraulic Hot Press	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Von Becker and Van Hullen Krefeld, Germany Elektro-Industrie (Control)		Platen 52" X 100" 5 openings 3-3/4" each max. pressure 600 atm. 4 - main rams 1 - jack ram Hydraulic pump on top of press. Platen hot water supply is connected through swing joints. S-3099 type SK25 (control)	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
To veneer bagasse board		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>PROPULSOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	7.5	1750 rpm Ser. 49197/2 Electro-mecanique	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Press area needs charger and unloader facilities. The press is in fair condition.			RD\$ RS\$4000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Disassemble hydraulic pump, clean and refill. Blow out all lines - hydraulic and water. Bake and rework motor. Reinstall drive with new belts. Remove rust and paint press. Install charger and unloading racks.			RD\$ RD\$800

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Multiple Blade Circular Saw	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
B. Raimann GmbH Freiburg, St. Georgen Germany		Type KBUMA Mach. No. 16242 Ser. No. 61/1/3251 Ex. Fraesbreite 18" Control switch type SD-K307G. 120 Amp	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Rip panels to size		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>COMBUSTOR</u> <u>on</u> <u>machine</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
	37 1.6/2.0	3500 rpm 61 amp. type DM 2816/2 Perske (cutter drive) 1800/3600 rpm type FMNA 412-IRN Glaser Von Praun (Table feed motor)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Cutter drive starter switch (manual) has badly burned contacts.			RD\$
Saw is in fair condition.			4500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Bake and rework motor. Re-install drives. Replace burned starter switch. Remove rust and paint machine.			RD\$ 500

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Cut-off Saw	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Altendorf		12" diameter blade Machine No. 61-3-21 Circular saw with moving table. Control is a manual motor switch, for Wye-Delta.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
To edge trim panels.		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine		unknown	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Saw is in fair condition.			RD\$
Some rust is evident.			500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Clean, lubricate and paint the machine.			RD\$
Bake and rework motor.			
Reinstall drive.			400

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		2-Milling Machines (Router)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Stehle Holzherr		Type ET2 Machine No. 20830 & 20831 Control is manual motor switch Wye-delta	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Edge shape veneered boards		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>MOTOR</u> on machine	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
	3/3.7 0.5/0.7	1710/3410 rpm 1700/3300 rpm	Holzherr (router drive) Holzherr (feed drive)
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Machine is in fair condition. There is some rust on frame. Control is in fair condition.			RD\$ 800 (2)
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Clean and lubricate the machine. Bake and rework motors.			RD\$ 600 (2)

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Table Jointer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Stehle			
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Planer		none	
<u>STARTER</u> <u>LOCACION</u> <u>DEL</u> <u>TRANSCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	1.5	3400 rpm vertical shaft	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Machine is rusty and in fair condition mechanically. Control is in fair condition.			RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Bake and rework motor. Remove rust, lubricate, and paint machine.			RD\$ 200

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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Veneered Bagasse Board and Plywood		Small Planer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Maschinenfabrik Hofman Lechh Wuerdsheim, Bayern, Germany		24" wide Planes top of board	
W. Perske (control) Mannheim, Germany		Two manual motor switches	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Finish surface of veneered board.		none	
<u>STARTER</u> LOCACION UBICACION DEL MOTOR on machine	<u>KW</u> KW 4	<u>MOTORS</u> MOTORES 3440 rpm 7.4 amp planer head	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL</u> VALOR RESIDUAL
Machine has no planer shavings collector. The planer is rusty and in fair condition. The control is in good condition.			RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION</u> COST COSTO DE RESTAURACION
Remove rust, lubricate, and paint machine. Install dust collector and duct. Bake and rework motor.			RD\$ 400

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Vertical Router (Inside Chain Saw)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Kansch and Kammerer Stuttgart, Germany		This is a portable machine, a vertical chain saw with adjustable height.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Cut openings in veneered Bagasse Board		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ENCENDIDO</u> on machine	<u>KW</u> <u>KW</u> 1.5	<u>MOTORS</u> <u>MOTORES</u> 3400 rpm Chain saw drive Manufacturer - Blocker	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
No sawdust collector is provided. Machine is in fair condition. Control is in fair condition.			RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Clean, lubricate, and paint machine Bake and rework motor. Install dust collector and duct to header.			RD\$ 300

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

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NO. 14

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		2 - Hydraulic Single Opening Cold Presses	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
G. Joos Maschinenfabrik Pfalzgrafenweiler Wurttt, Germany		Platen 49" X 99" and 31-1/2" opening. Maximum pressure 600 atm. Control in panel on machine.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAN INCLUIDO</u>	
Veneering of Bagasse Board		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ENCENDIDO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine	2 2	Hydraulic pump drive (No. 1 press) Hydraulic pump drive (No. 2 press)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Presses are in fair condition. Control is in good condition. One hydraulic pump motor is missing.			RD\$ 4000 (2)
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Supply and install pump motor. Bake and rework existing motor. Reinstall drive with new belts. Remove rust and paint press. Flush hydraulic system and refill.			RD\$ 2000 (2)

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~~EQUIPMENT INVENTORY AND EVALUATION~~ ~~INVENTARIO DE EQUIPO Y EVALUACION~~

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~~1954~~

<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard</p> <p style="text-align: center;">Line B</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p>Bagasse Fan</p>	
<p style="text-align: center;">EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p> <p>Pawert Ltd. Basel, Switzerland</p> <p style="text-align: right;">Flat pulley - 7 1/2" diameter - 5" wide on fan</p>			
<p style="text-align: center;">FUNCTION FUNCION</p> <p>Convey bagasse from hammermill to dryer</p>		<p style="text-align: center;">AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO</p> <p>7. 5" diameter duct from hammermill to fan. 12" diameter pipe to cyclone.</p>	
<p>STARTER LOCACION UBICACION DEL MOTOR</p> <p>Panel #2</p>	<p>KW KW</p> <p>22</p>	<p style="text-align: center;">MOTORS MOTORES</p> <p>1775 rpm, Schorch. 8" diameter flat pulley 5" wide on motor</p>	
<p style="text-align: center;">PHYSICAL STATE ESTADO FISICO</p> <p>Fan has a damaged housing. Equipment is rusty and in fair condition mechanically.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p>RD\$</p> <p style="text-align: center;">350</p>
<p style="text-align: center;">PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Repair holes in fan, 5" flat drive belt missing. Remove rust, and paint. Bake and rework motor. Install drive. Fabricate and install belt guard.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p style="text-align: center;">500</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

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HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Electrical Panel #5 Distribution panel for veneered bagasse board and plywood	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Siemens - Schuckertwerke Erlangen, Germany			
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Fusegear		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
		Motors are listed with mechanical equipment.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Metal clad panel 80 cm wide, 200 cm high, and 45 cm deep contains main switch, fuses, bus bar and terminals. Panel is in good condition. Some outgoing cables are grounded.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Thirty 25 Amp fuses are missing. Install fuses. Replace grounded cables. Remove rust and paint panel.			RD\$ 700

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Veneered Bagasse Board and Plywood		Electrical Panel #62 Press Operator's Panel	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Siemens Schuckertwerke Erlangen, Germany		Control panel contains main switch, fuses, starters, relays, and operator's controls. Two dial type contact-making pressure indicators, 0 to 630 Kg/cm ² .	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Control press, charger and unloader		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
in panel		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Panel is corroded some inside and out and is in fair condition. This panel is not installed.			RD\$ 350
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Install panel in place provided near 8 opening (Seimple- kamp) press. Connect power supply. Install hydraulic control lines. Connect all control and motor cables.			RD\$ 900

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Veneered Bagasse Board and Plywood		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #63 Control panel for sheet saw (Skinner and trim saw)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Panel built up by installation contractor's electricians from Telemecanique starters.			
<u>FUNCTION</u> <u>FUNCION</u> Control sizing and squaring of veneered panel		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Limit switches on machine	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> panel #63	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with Mechanical Equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Panel built in wall from fuse box assembly and starters. Panel is in good condition except for appearance.			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> No parts missing. Remove rust and paint.			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ 100

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Moulded Products		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Fines or Pith Cyclone	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Pawert Ltd. Basel, Switzerland			
<u>FUNCTION</u> <u>FUNCION</u> Air separator for pith		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> none	<u>KW</u> <u>KW</u> none	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Bullet holes in cylcone. Cyclone otherwise in good condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold as is. Do not restore.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ none

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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Moulded Products		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Pith Storage Silo	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		Silo is 81" diameter X 270" high.	
<u>FUNCTION</u> FUNCION Store pith		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO none	
<u>STARTER</u> LOCATION UBICACION DEL ARRANCADOR none	<u>KW</u> KW none	<u>MOTORS</u> MOTORES none	
<u>PHYSICAL STATE</u> ESTADO FISICO Silo is in good condition.			<u>RESIDUAL VALUE</u> VALOR RESIDUAL RD\$ 200
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Hold as is. Do not restore			<u>RESTORATION COST</u> COSTO DE RESTAURACION RD\$ none

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		Mixer Station	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Draiswerke GmbH Mannheim, Germany		Equipment includes Mixer type KFSP 319, 99"L. X 28" dia. with batch weighing and air cylinder at intake; resin metering pump; type LR mixing tank 1.1m dia X 52" high with pump and batch paddle mixer (5HP vertical drive); batch mixer tank 27" dia. X 31" high with propeller agitator; hot water circulating pump .55 KW and heat exchanger tank 8" dia X 36" high.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Preparation of resins Addition of resins to pith		see above	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>APANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #44	5 10 1/4HP 1/4HP 3/4HP	(tank agitator) Schorch gear motor 0.55 KW (hot water circulation pump) (mixer drive) (resin metering pump) (mixer discharge) 3.1A. (resin transfer pump) (batch mixer propeller type)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Electrical equipment is installed but not wired. Tanks and mixer are installed but there is no piping. All equipment is not located near pith silo. 2 - Batch paddle mixers have no hot water jackets. Tanks and machinery are rusty, but in fair condition. Feed chutes are not installed.			RD\$ 3800
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Hold as is. Do not restore.			RD\$ none

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 121
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		Pith Storage Silo	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		81" dia. X 270" high	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Store pith		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>GENERADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Silo is not installed.			RD\$
Silo is rusty and in fair condition.			400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Hold as is. Do not restore.			RD\$
			none

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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Moulded Products		Mixer Station	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Draiswerke GmbH Mannheim, Germany		Equipment includes Mixer type KFSP 319, 99"L. X 28" dia. with batch weighing and air cylinder at intake; resin metering pump; type LR mixing tank 1.1m. dia. X 52" high with pump and batch paddle mixer (5HP vertical drive); batch mixer tank 27" dia X 31" high with propeller agitator; hot water circulating pump .55 KW and heat exchanger tank 8" diameter X 36" high.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Preparation of resins		see above	
Addition of resin to pith			
<u>STARTER</u> LOCACION UBICACION DEL APARATADO	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
Panel \$45	5 10 1/4HP 1/4HP 3/4HP	(tank agitator) Schorch gear motor 0.55KW (hot water circulation pump) (mixer drive) (resin metering pump) (mixer discharge) 3.1A. (resin transfer pump) (batch mixer propeller type)	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL VALUE</u> VALOR RESIDUAL
This equipment is stored in various places in the plant.			RD\$ 3500
The gear motor for one vertical mixer tank is missing.			
Equipment is rusty and in fair condition.			
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION COST</u> COSTO DE RESTAURACION
Hold as is. Do not restore.			RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		2 - Pith Storage Silos	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pawert Ltd. Basel, Switzerland		81" dia. X 270" high	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Store pith		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Silo is not installed.			RD\$
Silo is rusty and in fair condition.			800
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Hold as is, do not restore or install			RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 124
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		Ventilator Fans (Two Units)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
K. Merz Maschinenfabrik		Two fan units mounted on elbows passing through north wall of mixer room. Each fan is an axial unit 5 ft in diameter and 5 ft high.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Room ventilation		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #4	4	840 rpm	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Fans are installed, but there are no duct connections.			RD\$
Motors are not connected to power.			300 (for two)
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Hold as is. Do not restore.			RD\$
			none

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~~EQUIPMENT INVENTORY AND EVALUATION~~ INVENTARIO DE EQUIPO Y EVALUACION

~~SHEET 53~~
1011

SYSTEM OR PRODUCT SISTEMA O PRODUCTO Bagasse Particleboard Line B		NAME OF EQUIPMENT NOMBRE DEL EQUIPO Bagasse Cyclone	
EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION			
Pawert Ltd. Basel, Switzerland		Diameter - 4 feet (for bagasse fan)	
FUNCTION FUNCION Air separator		AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO Air valve	
STARTER LOCATION UBICACION ENCENDIDO none	KW KW	MOTORS MOTORES none	
PHYSICAL STATE ESTADO FISICO Cyclone has bullet holes in it, and is rusty, but in fair condition. Air valve is on hand, but not installed.			RESIDUAL VALUE VALOR RESIDUAL RD\$ 200
PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA Repair bullet holes in cyclone. Remove rust and repaint cyclone. Repair air valve and install in duct. Remove rust from air valve, and paint.			RESTORATION COST COSTO DE RESTAURACION RD\$ 600

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

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HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		Hydraulic Pump	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Pumpenfabrik Urach		Type RD 11 3 cylinder 64 liters/min. 300 atm. 46" diameter flywheel with 9 V-belt "D" section drive.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Supply hydraulic oil pressure.		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #4		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Motor is missing. The pump is in fair condition, and is not installed.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Hold as is. Do not restore.			RD\$ none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 126
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		Hydraulic Control Console	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		600 Kg/cm maximum pressure on Gutor gauge.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Control hydraulic process		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Console electrical and hydraulic equipment are in good condition.			RD\$
The equipment is not installed.			300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Hold as is. Do not restore.			RD\$
			none

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INVENTARIO DE EQUIPO Y EVALUACION

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Moulded Products		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Pressure Tank	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Otto Klein <p style="text-align: right;">Tank 56" diameter X 10 feet long. Capacity is 5000 liters at 16 atm. Tank stands vertically on short legs.</p>			
<u>FUNCTION</u> <u>FUNCION</u> Probably for compressed air.		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>AVANZADOR</u> none	<u>KW</u> KW none	<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> The tank is not installed, but is in fair condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 250
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold as is. Do not restore.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ none

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~~EQUIPMENT INVENTORY AND EVALUATION~~ ~~INVENTARIO DE EQUIPO Y EVALUACION~~

~~SHEET 128~~

~~NO. 11~~

<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO Moulded Products</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO 3 Hydraulic Accumulators</p>	
<p>EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Manufacturer unknown</p>		<p>20" diameter X 14 feet long high pressure</p>	
<p>FUNCTION FUNCION Hydraulic pressure storage vessels</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO none</p>	
<p>STARTER LOCATION UBICACION DEL ARRANCADOR none</p>	<p>KW KW</p>	<p>MOTORS MOTORES none</p>	
<p>PHYSICAL STATE ESTADO FISICO Equipment is not installed and internal condition is unknown</p>			<p>RESIDUAL VALUE VALOR RESIDUAL RD\$ 600</p>
<p>PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA Hold as is. Do not restore</p>			<p>RESTORATION COST COSTO DE RESTAURACION RD\$ none</p>

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

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HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Moulded Products		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #44 Mixer Control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Jöst GmbH Munster, Westfield, Germany		Console type panel has fuses, starters, relays, and operator's controls.	
<u>FUNCTION</u> <u>FUNCION</u> Control speed of mixer		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Rheostat box	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u> in panel	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with mechanical equipment.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> The panel is in fair condition. There are 3 broken indicating lights. The rheostat box is in fair condition. There is no external wiring to motors.		<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> RD\$ 300	
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Hold as is. Do not restore.		<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> RD\$ none	

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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Moulded Products		Electrical Panel \$45 Mixer Control	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
Jöst GmbH Munster, Westfield, Germany		Console type panel has fuses, starters, relays, and operator's controls.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Control speed of mixer		Rheostat box	
<u>STARTER LOCATION</u> UBICACION DEL ARRANCADOR	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
in panel		Motors are listed with mechanical equipment.	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL VALUE</u> VALOR RESIDUAL
The panel is in fair condition. There are 3 broken indicating lights. The rheostat box is in fair condition. There is no external wiring to motors.			RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION COST</u> COSTO DE RESTAURACION
Hold as is. Do not restore.			RD\$ none

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		Pith Mixer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Draiswerke GmbH Mannheim, Germany		Equipment includes mixer 24" diameter X 120" long with motor, drive belts, and feed hopper.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Addition of resin to pith.		none	
<u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none	4	7.4 Amp. Gear motor	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Equipment is quite corroded, and in poor condition.			RD\$ 800
<u>DATA MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Hold as is; do not restore.			RD\$ none

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Moulded Products		Hydraulic Compressor	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		Compressor with 7" "D" size V-belt drive, flywheel 41" O.D. and 9" face.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Supply hydraulic oil pressure.		none	
<u>STARTER</u> <u>LOCACION</u> <u>UBICACION</u> <u>DEL</u> <u>MANCADO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
		60 Amp 1175 rpm Type ARV 1151/6M Schorch Motor pulley 9.5" O.D.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Equipment is partially crated and not installed. Motor and compressor are in good condition.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Hold as is. Do not restore.			RD\$ none

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Hot Water Boiler	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Wilhelm Kuesters Aachen, Germany		Boiler No. 3968 Barjahr 1961, 15Kg/cm ² working pressure at 3,750,000 K cal/Hr. Fuels: Bunker "C" oil, wood waste, and pith. Stack: 38" diameter X 65 ft long. Boiler and stack foundation are complete.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAN INCLUIDO</u>	
Furnish superheated water for plant.		4 - oil pre-heaters	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>UBICACION</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #72	18.5	720 rpm type SO9G/4 Schorch (Induced Draft Fan)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The boiler status is as follows: the fire box is not completed no brick work nor insulation have been installed; firebox casing is not installed; oil burner is not installed; stack on hand, but not installed; part of breach duct missing; piping from oil pre-heaters to burner not installed. Stack is rusty. There is no electrical installation anywhere on boiler or in the room. No piping is installed. The equipment that is installed is basically in good condition.			RD\$ 25,000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Fire-brick and insulation are available in storage. Complete the fire box installation and casing. The oil burner is available (see following sheet). Clean rust from stack, paint, and install. Install all duct work and its insulation. Install piping for oil, air, and water. Install cables to motors and electrical starters. Bake and rework draft fan motor. Remove rust from all equipment stored and repaint.			RD\$ 14,000

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Oil Burner (For Hot Water Boiler)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Fritz Barth		Type AG 104 ("Ray" oil burner head) Burner head mounted on frame for swinging away from burner.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Oil Burner		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>ENCUADRO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #73		7.5 HP blower motor	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>SERIAL</u> <u>VALUE</u> <u>RESIDUAL</u> <u>RD\$</u>
The burner is externally corroded.			100
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> <u>RD\$</u>
Remove rust, lubricate, and paint the burner. Bake and rework blower motor.			250

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<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Bagasse Particleboard</p> <p>Line B</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p>Air Heater</p> <p>(Oil burner and combustion chamber)</p>	
<p align="center">EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p> <p>Burner-G. Johnson, Oakland, California Burner Type BH-2</p> <p>Chamer-Oertli A. G. Dubendorf Zurich, Switzerland Chamber Type AR3 No. 257 with fan 3800 cu. meter/Hr.</p>			
<p>FUNCTION FUNCION</p> <p>Combustion products dry fiber</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO</p> <p>none</p>	
<p>STARTER LOCATION UBICACION ENCENDEDOR Panel #22</p>	<p>KW KW</p> <p>2.2 1/16HP</p>	<p>MOTORS MOTORES</p> <p>1780 rpm</p>	
<p align="center">PHYSICAL STATE ESTADO FISICO</p> <p>Equipment is missing.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p>RD\$</p> <p>none</p>
<p align="center">PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Purchase equipment, install, insulate and paint.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p>RD\$</p> <p>8000</p>

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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Plant Services</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Boiler Accessory Equipment</p>	
<p><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p>			
<p>Manufacturer unknown</p>		<p>1 - Auxiliary oil storage tank 2 - Oil circulating pumps 6 - Calrod immersion heaters in tank 2 - Boiler return pumps 6" inlet and 6" outlet pipes types 1128 (Auftrag 31397 No. 1847)</p>	
<p><u>FUNCTION</u> <u>FUNCION</u></p> <p>Equip boiler</p>		<p><u>AUXILIARY EQUIPMENT NUMBER</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p>See Above</p>	
<p><u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u></p> <p>Panel #72</p>	<p><u>KW</u> <u>KW</u></p>	<p><u>MOTORS</u> <u>MOTORES</u></p> <p>3/4 HP (oil circulating pumps) 1725 rpm type 931/4 Schorch (boiler return pumps)</p>	
<p><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Boiler make-up water treatment system is missing. Pump motors are not connected electrically or piped up. There is no electrical installation of calrod heaters. The equipment is in fair condition.</p>			<p><u>ORIGINAL</u> <u>VALUE</u> <u>VALOR ORIGINAL</u></p> <p>RD\$</p> <p style="text-align: center;">300</p>
<p><u>DATE MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Purchase and install boiler make-up water treatment system. Piping of pumps and electrical installation are covered under the boiler analysis. Remove rust, lubricate, install and paint all equipment. Bake and rework pump motors.</p>			<p><u>RESTORATION</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$</p> <p style="text-align: center;">1200</p>

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<p><u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u></p> <p>Plant Services</p>		<p><u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u></p> <p>Sawdust Silo and Boiler Feeder</p>	
<p style="text-align: center;"><u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u></p> <p>Manufacturer unknown Automatic feeder wheel and pipe to boiler.</p>			
<p style="text-align: center;"><u>FUNCTION</u> <u>FUNCION</u></p> <p>Feeds sawdust, chips, and pith to boiler.</p>		<p style="text-align: center;"><u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u></p> <p style="text-align: center;">none</p>	
<p><u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u></p> <p>Panel #72</p>	<p><u>KW</u> <u>KW</u></p>	<p style="text-align: center;"><u>MOTORS</u> <u>MOTORES</u></p> <p style="text-align: center;">Unknown gearmotor</p>	
<p style="text-align: center;"><u>PHYSICAL STATE</u> <u>ESTADO FISICO</u></p> <p>Ducts and cyclones for transporting waste fuel to sawdust silo are missing.</p> <p>Condition of feeder and silo is fair.</p>			<p style="text-align: center;"><u>REPAIR VALUE</u> <u>VALOR REPARACION</u></p> <p>RD\$</p> <p style="text-align: center;">500</p>
<p style="text-align: center;"><u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u></p> <p>Bake and rework gear motor/reducer. Lubricate feeder. Install ducts from wood-working area and pith storage area, to boiler house. Install cyclones over silo.</p>			<p style="text-align: center;"><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$</p> <p style="text-align: center;">3000</p>

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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO Plant Services	<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO Oil Storage Tank
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION	
Manufacturer unknown	Tank is 16 ft. in diameter X 18 ft. high located west of the boiler house. A pipeline is installed to a near-by oil supply depot.
<u>FUNCTION</u> FUNCION Bunker "C" oil storage	<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO Tank valves and ladder
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> DESCRIPCION none	<u>KW</u> <u>KW</u> none
<u>MOTORS</u> <u>MOTORES</u> none	
<u>PHYSICAL STATE</u> ESTADO FISICO Tank has two shell holes in it. Some rust spots appear on tank.	<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 300
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA Repair 2 shell holes. Remove rust and paint the tank exterior. Clean inside of the tank - remove condensed moisture.	<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 300

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Main Air Compressor (Low Pressure)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Karl Wittig GmbH Schopfheim Baden, Germany		Type DVN 13066 880 rpm 5 atm. (75 psi) Machine No. 138090/18 Suction capacity 935 m ³ /Hr. 109 shaft H. P.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Provide compressed air.		Air reservoir 5'-3" diameter X 17'-0" long	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
Panel #71	92	880 rpm 155 Amp. type DS535/8 tropicalized Rheinische Elektro-Maschinenfabrik	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The compressor, intercooler, after cooler, and reservoir are piped. There is no low pressure plant air system installed. The compressor is in fair condition.			RD\$ 3000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Clean lubrication system and existing air lines. Dismantle the compressor for inspection and cleaning. Repair and relubricate the machine. Remove rust from exterior and paint. Bake and rework motor.			RD\$ 1500

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Auxiliary Air Compressor (High Pressure)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Karl Wittig GmbH Schopheim Baden, Germany		Type DVN 45-4 8 atm. (120 psi) Machine No. 138040/29 Suction capacity 270m ³ /Hr. 41 shaft H. P.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Provide compressed air		Air Reservoir 4 ft. 7 in. diameter X 11 ft long	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>TRANSCADOR</u> Panel #71	<u>KW</u> <u>KW</u> 35	<u>MOTORS</u> <u>MOTORES</u> 1730 rpm 59Amp. type DS 351574 Rheinische Elektro-Maschinenfabrik	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Compressor, inter cooler, after cooler, and reservoir are piped. There is no plant air system installed. Compressor is in fair condition.			RD\$ 2000
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Clean oil lines, and existing air lines. Dismantle compressor for inspection and cleaning. Relubricate and repair the machine. Remove rust from exterior and paint. Bake and rework motor.			RD\$ 1200

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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Plant Services		Roof Storage Tank	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		Horizontal tank 5 ft. diameter X 35 ft long. Tank is resting on cradle with legs, located on roof of main building.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Fire protection reservoir		none	
<u>STARTER</u> <u>LOCATION</u> <u>DEL</u> <u>GENERADOR</u>	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
none		none	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL VALUE</u> VALOR RESIDUAL
Tank is in fair condition but is not connected to the fire protection water lines.			RD\$
			400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> COSTO DE RESTAURACION
Remove rust and paint. Flush inside of tank before service.			RD\$
			300

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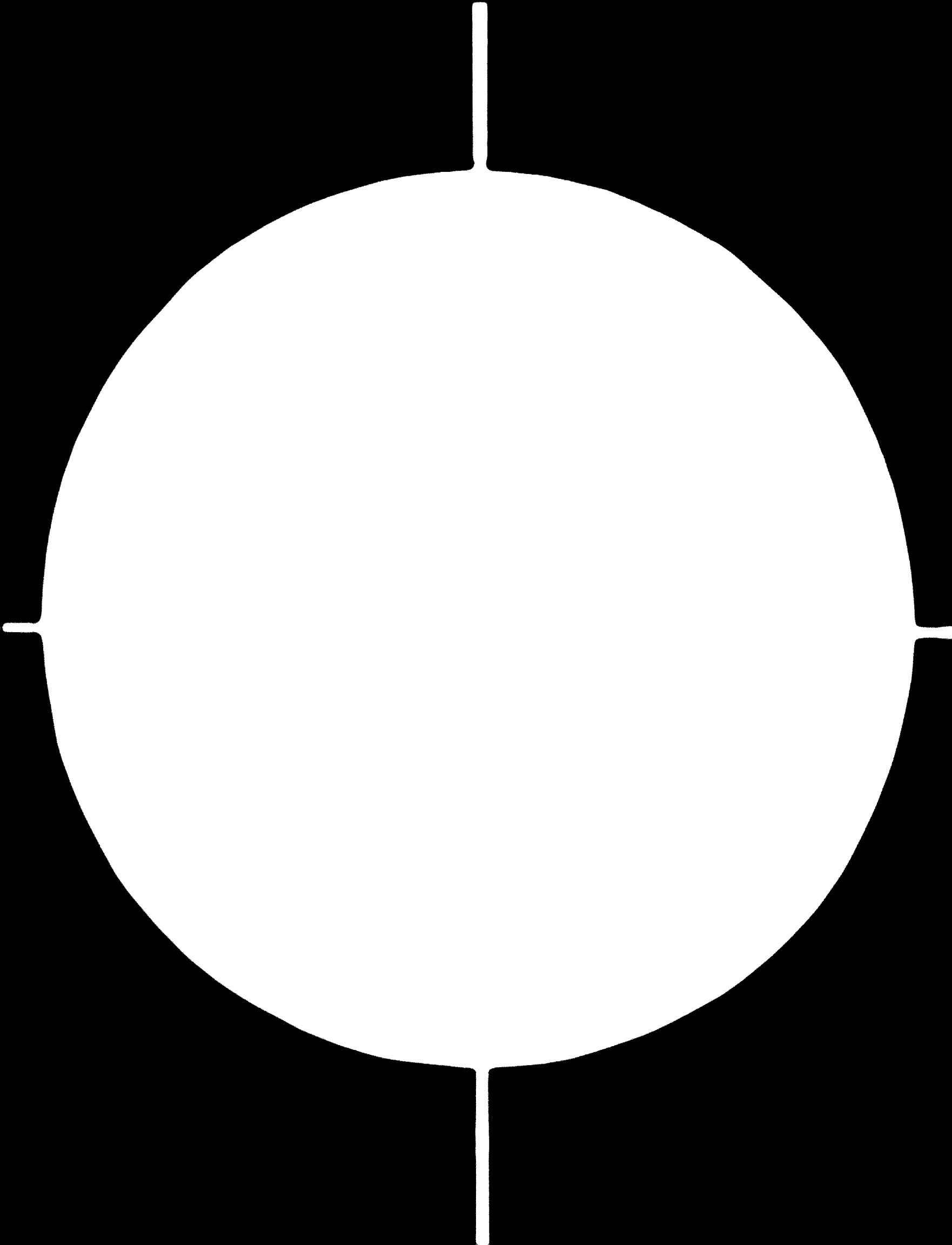
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<u>SYSTEM OR PRODUCT</u> SISTEMA O PRODUCTO		<u>NAME OF EQUIPMENT</u> NOMBRE DEL EQUIPO	
Plant Services		Hot Water Pumping Station (2-Pumps at extruders line A and B)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> FABRICANTE DEL EQUIPO E IDENTIFICACION			
H. Krantz Aachen, Germany		Pumps type 4215 Each pump directly coupled to motor on Cast Iron base. Four inch diameter outlet. Eight 3" valves piped up. Station located north of extruder "B" location. Used for hot water to extrusion presses.	
<u>FUNCTION</u> FUNCION		<u>AUXILIARY EQUIPMENT INCLUDED</u> EQUIPO AUXILIAR INCLUIDO	
Hot water circulation to extruders.		none	
<u>STARTER</u> LOCACION UBICACION DEL ENCENDIDO see below	<u>KW</u> KW	<u>MOTORS</u> MOTORES	
	4.4	1730 rpm Schorch (pump No. 1)	
	4.4	1730 rpm Schorch (pump No. 2)	
<u>PHYSICAL STATE</u> ESTADO FISICO			<u>RESIDUAL</u> VALOR RESIDUAL
The equipment is in bad condition. Valve stem threads are corroded and valves are jammed. Piping and manifolds are not insulated. Pipes and pumps are corroded. Motors are not connected to electrical supply.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> PIEZAS FALTANTES Y RESTAURACION NECESARIA			<u>RESTORATION</u> COST COSTO DE RESTAURACION
Disassemble station, remove corrosion, replace necessary valves, reassemble and paint. Rework pumps and lubricate equipment. Bake and rework motors. Install starters and run cables to motors. Insulate all manifolds and piping.			RD\$ 1600

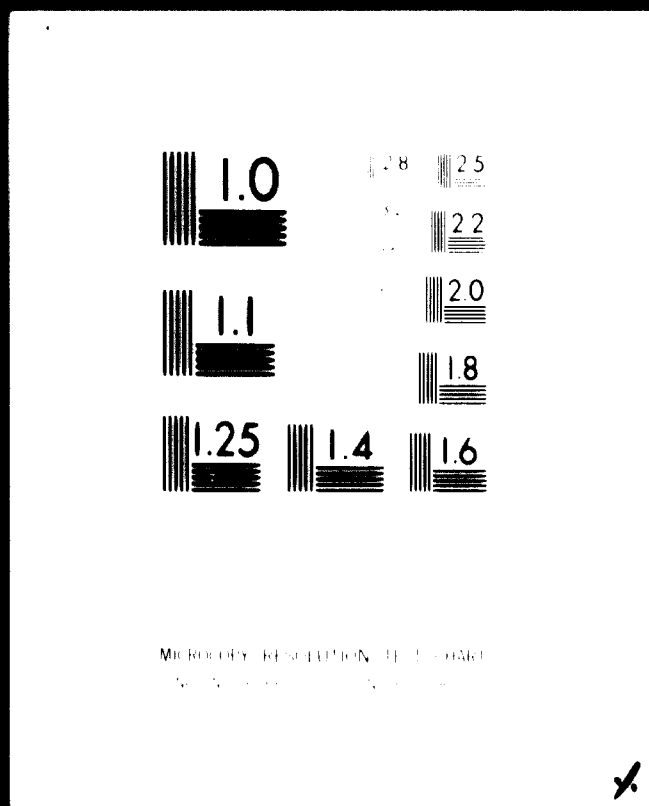
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<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Plant Services</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p>Electrical Panel #7 Distribution board for the boiler house</p>	
<p style="text-align: center;">EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p> <p style="text-align: center;">Siemens - Schuckertwerke Erlangen, Germany</p>			
<p>FUNCTION FUNCION</p> <p>Fusegear</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO</p>	
<p>STARTER LOCATION UBICACION DEL PARTIDOR</p>	<p>KW KW</p>	<p>MOTORS MOTORES</p> <p>Motors are listed with mechanical equipment.</p>	
<p style="text-align: center;">PHYSICAL STATE ESTADO FISICO</p> <p>Metal clad panel 156 cm X 200 cm X 45 cm contains main switch, fuses, starters, bus bar and terminals. Panel is in good condition. Surface badly rusted. Hot water, pump controls are included.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p>RD\$</p> <p style="text-align: center;">400</p>
<p style="text-align: center;">PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Six-200A fuses, 3-100A fuses, and 14-25A fuses, are missing. Install fuses, remove rust and paint panel. Install cables to hot water pumps.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p>RD\$</p> <p style="text-align: center;">600</p>

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u> Plant Services		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u> Electrical Panel #71 Air compressor control panel	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u> Electro Maschine Fabrik Krefeld, Germany			
<u>FUNCTION</u> <u>FUNCION</u> Control air compressors and drive motors		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u> Compressor pressure regulators	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DE</u> <u>TRANSCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u> Motors are listed with mechanical equipment	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u> Control panel contains circuit breaker, starters, push buttons, switches, relays, control transformer, and terminals. Panel and pressure regulators in good condition.			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u> Controls apparently need no work but painting.			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u> RD\$ 50

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<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Substation Transformer	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Marcus Transformer Co., Inc. Rahway, New Jersey		2200 KVA 5.4 impedance type TLS Class OA 12470/480 V 3ph 60 cy. Ser 88237 1961 755 gal. oil	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Voltage transformer		Primary disconnects and structure Substation fence and pad.	
<u>STARTER LOCATION</u> <u>UBICACION DEL ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Two transformer cooling fins damaged by rifle bullets. Fins had been leaking and were repaired by iron cement or epoxy.			RD\$
			2500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Remove damaged fins and replace. Remove rust and paint transformer, and equipment. Change oil and filter oil, if required.			RD\$
			1700

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~~111~~

<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Plant services</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p>Substation Secondary Switchgear</p>	
<p align="center">EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO Y IDENTIFICACION</p> <p>Voight & Haeffner A. G. FNR 42-23789 3000 Amp Frank furt M. , Germany Sp. No. 475-10543 500V A. C.</p>			
<p>FUNCTION FUNCION</p> <p>Switch plant circuits</p>		<p>ADDITIONAL EQUIPMENT NUMBER EQUIPO ADICIONAL NUMERO</p> <p>Outgoing cable runs to distribution panels.</p>	
<p>STARTER LOCACION DE LA MAQUINA</p> <p>none</p>	<p>KW KW</p>	<p>MOTORS MOTORES</p> <p>none</p>	
<p>PHYSICAL STATE ESTADO FISICO</p> <p>General condition of metal clad switchgear is good. Metal is rusted and fuse holders are corroded in places. Some cables are grounded. Residual value includes cables in place.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p>RD\$</p> <p>4000</p>
<p>DATA MISSING AND RESTORATION SERVICES PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Replace rusted top deck of metal clad gear. Replace rusted springs in air circuit breaker trip mechanism. All main outgoing fuses are missing. Replace fuses. Clean inside, remove rust outside and paint. Replace cooling air screen. Replace or repair grounded cables.</p>			<p>RESTORATION VALUE VALOR DE RESTAURACION</p> <p>RD\$</p> <p>5000</p>

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<p>SYSTEM OR PRODUCT SISTEMA O PRODUCTO</p> <p>Plant Services</p>		<p>NAME OF EQUIPMENT NOMBRE DEL EQUIPO</p> <p>Plant Fire System</p>	
<p>EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION</p>			
<p>Manufacturer unknown</p>		<p>This is a combined domestic water and fire ring header system. All underground mains are in place.</p>	
<p>FUNCTION FUNCION</p> <p>To supply water and fire protection.</p>		<p>AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAN INCLUIDO</p> <p style="text-align: center;">none</p>	
<p>STARTER LOCACION CONDICION</p> <p>none</p>	<p>KW KW</p>	<p>MOTORS MOTORES</p> <p style="text-align: center;">none</p>	
<p>PHYSICAL STATE ESTADO FISICO</p> <p>Some hydrants are missing. There are no hose stations. There are no sprinklers in any buildings. The installed equipment is in fair condition.</p>			<p>RESIDUAL VALUE VALOR RESIDUAL</p> <p style="text-align: center;">RD\$ 2,000</p>
<p>PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA</p> <p>Purchase and install missing hydrants. Install hose and reels throughout plant. Install sprinklers in all buildings.</p>			<p>RESTORATION COST COSTO DE RESTAURACION</p> <p style="text-align: center;">RD\$ 18,000</p>

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BUILDING INVENTORY AND EVALUATION INVENTARIO Y EVALUACIÓN DEL EDIFICIO

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<p><u>BUILDING CONSTRUCTION AND SIZE</u> <u>CONSTRUCCION Y TAMANO DE EDIFICIO</u></p> <p>Building is 21 m.x 21 m. with high ceiling. Reinforced concrete columns with concrete block walls. Concrete floor. There is foundation provision for a second boiler.</p>	<p><u>BUILDING OR GROUNDS</u> <u>EDIFICIO O TERRENO</u></p> <p>Boiler House and Air Compressor Building</p>
<p><u>ROOF CONSTRUCTION</u> <u>CONSTRUCCION DEL TECHO</u></p> <p>Concrete slab roof.</p>	
<p><u>WINDOWS, DOORS AND MISCELLANEOUS</u> <u>VENTANAS, PUERTAS Y DIVERSOS</u></p> <p>Door openings in two rooms are large enough for boiler parts to pass through. There is no steel work. No windows are in the boiler house.</p>	
<p><u>PHYSICAL STATE</u> <u>CONDICION FISICA</u></p> <p>Doorways are roughed in, but no doors are installed. Railings are missing around floor openings. Stairway to pith feeder is missing. The building is in good condition. The roof is in fair condition. There are no sanitary facilities.</p>	<p><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p>RD\$</p> <p>6000</p>
<p><u>CONSTRUCTION AND RESTORATION REQUIRED</u> <u>CONSTRUCCION Y RESTAURACION REQUERIDAS</u></p> <p>Install fire resistant or steel doors in three openings. Install railings and stairways. Install toilet and washing facilities. Install stairway and platform for pith feeder.</p>	<p><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p>RD\$</p> <p>3000</p>

DOMBUIZA

BUILDING INVENTORY AND EVALUATION INVENTARIO Y EVALUACION DEL EDIFICIO

SHEET 156
FOIA

<p style="text-align: center;"><u>BUILDING CONSTRUCTION AND SIZE</u> <u>CONSTRUCCION Y TAMANO DE EDIFICIO</u></p> <p>Building 25 m. X 27 m. with a concrete block wall on two sides and sides of adjacent buildings for other walls.</p>	<p style="text-align: center;"><u>BUILDING OR GROUNDS</u> <u>EDIFICIO O TERRENO</u></p> <p>Fiber Preparation Building (Plant #2)</p>
<p><u>ROOF CONSTRUCTION</u> <u>CONSTRUCCION DEL TECHO</u></p> <p>Structural steel roof frame and corrugated transite roofing.</p>	
<p><u>WINDOWS, DOORS AND MISCELLANEOUS</u> <u>VENTANAS, PUERTAS Y DIVERSOS</u></p> <p>Two steel doors for briquette trucks (swinging). Window louvres of wood on south side. The floor is concrete.</p>	
<p style="text-align: center;"><u>PHYSICAL STATE</u> <u>CONDICION FISICA</u></p> <p>Shell holes in concrete walls. The building is poorly built. The roof is shattered and missing from storms and shelling. The steel door is in bad condition. There are no lighting fixtures or circuits. The floor is in satisfactory condition under machinery area. The building walls and roof are worthless. It does not protect the machinery from the elements.</p>	<p style="text-align: center;"><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">none</p>
<p style="text-align: center;"><u>CONSTRUCTION AND RESTORATION REQUIRED</u> <u>CONSTRUCCION Y RESTAURACION REQUERIDAS</u></p> <p>Building must be completely rebuilt.</p>	<p style="text-align: center;"><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">40,000</p>

DOMSUIZA

BUILDING INVENTORY AND EVALUATION INVENTARIO Y EVALUACION DEL EDIFICIO

SHEET 157
HOJA

<p style="text-align: center;"><u>BUILDING CONSTRUCTION AND SIZE</u> <u>CONSTRUCCION Y TAMANO DE EDIFICIO</u></p> <p>Reinforced concrete columns. Concrete block walls. Concrete floor. Building 75 m. X 75 m. with high middle bay and 4 floors over extruders.</p>	<p style="text-align: center;"><u>BUILDING OR GROUNDS</u> <u>EDIFICIO O TERRENO</u></p> <p>Main Production Building (Plants 3, 4, 5, and 6)</p>
<p><u>ROOF CONSTRUCTION</u> <u>CONSTRUCCION DEL TECHO</u></p> <p>Metal roof with tarpaper "built up" roof on top. "Truscon" Republic Steel roof girders.</p>	
<p><u>WINDOWS, DOORS AND MISCELLANEOUS</u> <u>VENTANAS, PUERTAS Y DIVERSOS</u></p> <p>Jalousie windows on north and south sides near roofs. Woodyard door is folding steel door.</p>	
<p style="text-align: center;"><u>PHYSICAL STATE</u> <u>CONDICION FISICA</u></p> <p>All truck doors are practically inoperable. Shell holes in walls of 2nd and 3rd floor. Roof metal is rusted through and roof leaks at many points. Window sashes blown out by hurricane. Jalousie operators broken. Staircase to 3rd and 4th floor are temporary wood. Press pits have no drains. Electrical cable troughs have no water drains. No floor drains near other presses for wash down, or for mixer area. No sanitary facilities or drinking fountains available. Building otherwise satisfactory condition.</p>	<p style="text-align: center;"><u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">50,000</p>
<p style="text-align: center;"><u>CONSTRUCTION AND RESTORATION REQUIRED</u> <u>CONSTRUCCION Y RESTAURACION REQUERIDAS</u></p> <p>Purchase and install new truck doors. Replace roof completely. Remove rust from roof trusses and paint. Replace windows with permanent glass or fiberglass louvers. Install steel staircases and rails. Install sump pumps in press pits. Install floor drains for press areas and mixer area. Install toilet and washing facilities on 1st and 3rd floors. Install drinking fountains on every floor.</p>	<p style="text-align: center;"><u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u></p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">80,000</p>

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BUILDING INVENTORY AND EVALUATION INVENTARIO Y EVALUACION DEL EDIFICIO

SHEET 158
HOJA

<p style="text-align: center;"><u>BUILDING CONSTRUCTION AND SIZE</u> CONSTRUCCION Y TAMANO DE EDIFICIO</p> <p>Building is 27 m. X 70 m. (82 ft X 215 ft) about 20 ft high. Column line along longitudinal centerline. Reinforced concrete columns and concrete block walls. Concrete floor.</p>	<p style="text-align: center;"><u>BUILDING OR GROUNDS</u> EDIFICIO O TERRENO</p> <p>Almacen (warehouse locally called machine shop)</p>
<p><u>ROOF CONSTRUCTION</u> CONSTRUCCION DEL TECHO</p> <p>Roof is a flat reinforced concrete slab.</p>	
<p><u>WINDOWS, DOORS AND MISCELLANEOUS</u> VENTANAS, PUERTAS Y DIVERSOS</p> <p>Some window openings are provided. There is no steel work in the building.</p>	
<p style="text-align: center;"><u>PHYSICAL STATE</u> CONDICION FISICA</p> <p>The windows are blown out. There is no provision for ventilation besides window areas. The building is basically good construction but the east wall of the building is bulged out due to bagasse pressure. The wall is sheared off at both easterly corners. The roof is in good condition.</p>	<p style="text-align: center;"><u>RESIDUAL VALUE</u> VALOR RESIDUAL</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">20,000</p>
<p style="text-align: center;"><u>CONSTRUCTION AND RESTORATION REQUIRED</u> CONSTRUCCION Y RESTAURACION REQUERIDAS</p> <p>Furnish and install windows with glass or fiberglass panels. Provide ventilation for dust condition. Rebuild east wall and provide steel or concrete beam reinforcement to upper walls.</p>	<p style="text-align: center;"><u>RESTORATION COST</u> COSTO DE RESTAURACION</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">15,000</p>

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BUILDING INVENTORY AND EVALUATION INVENTARIO Y EVALUACION DEL EDIFICIO

SHEET 159
HOJA

<p style="text-align: center;"><u>BUILDING CONSTRUCTION AND SIZE</u> CONSTRUCCION Y TAMAÑO DE EDIFICIO</p> <p>Building is 27 m. X 54m. (84 ft X 165 ft), with reinforced concrete columns 5.35 m. (16 ft - 4" c-c). Approximately 20% of area is subdivided into offices, showers, and toilet rooms. Floor is concrete.</p>	<p style="text-align: center;"><u>BUILDING OR GROUNDS</u> EDIFICIO O TERRENO</p> <p style="text-align: center;">Taller (Workshop) (Used as warehouse)</p>
<p><u>ROOF CONSTRUCTION</u> CONSTRUCCION DEL TECHO</p> <p>Roof is a flat reinforced concrete slab.</p>	
<p><u>WINDOWS, DOORS AND MISCELLANEOUS</u> VENTANAS, PUERTAS Y DIVERSOS</p> <p>There are four 10 ft roll up doors.</p>	
<p style="text-align: center;"><u>PHYSICAL STATE</u> CONDICION FISICA</p> <p>The south wall of the building is badly cracked. The wall has settled and the south-east corner is sheared. The east wall has settled and bulged at a 5" wide expansion joint mid length of the building. All the window sashes are destroyed. The four roll up doors are broken and useless. The toilet rooms and showers are rudimentary and temporary. The building is in bad condition. The office facilities are adequate.</p>	<p style="text-align: center;"><u>RESIDUAL VALUE</u> VALOR RESIDUAL</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">5,000</p>
<p style="text-align: center;"><u>CONSTRUCTION AND RESTORATION REQUIRED</u> CONSTRUCCION Y RESTAURACION REQUERIDAS</p> <p>Rebuild the south wall and the east wall of the building. Determine cause of settling and rebuild foundation in that area. Provide steel or concrete beam reinforcement to all upper walls. Provide fiberglass windows in steel or wood sash. Purchase and install steel overhead doors. Provide new toilet rooms and showers. Provide ventilation fans to discharge dust and a dust collector system.</p>	<p style="text-align: center;"><u>RESTORATION COST</u> COSTO DE RESTAURACION</p> <p style="text-align: center;">RD\$</p> <p style="text-align: center;">20,000</p>

DOMBUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 142
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Hot Water Pumping Station (2 Pumps at Presses)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
H. Krantz Aachen, Germany		Pumps type 4215 Each pump is directly coupled to motor on Cast Iron base. Six 3" diameter valves and four 2" diameter valves. Station used to supply hot water to presses and is located near the presses.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Hot water circulation to presses.		none	
<u>STARTER LOCATION</u> <u>UBICACION DEL INICIAADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
see below	4.4 4.4	1730 rpm Schorch (pump No. 3) 1730 rpm Schorch (pump No. 4)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Valve stems are corroded and valves are jammed. Pipes and pumps are corroded. Piping is installed back to extrusion area. Piping and manifolds are not insulated. The equipment is in bad condition. Motors are not connected to electrical supply.			RD\$ 500
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Disassemble station, remove corrosion, replace valves necessary, reassemble and paint. Rework pumps and lubricate equipment. Bake and rework motors. Install starters and run cables to motors. Insulate all manifolds and piping.			RD\$ 1600

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

161

<u>QUANTITY</u> <u>CANTIDAD</u>	<u>EQUIPMENT AND DESCRIPTION</u> <u>EQUIPOS Y DESCRIPCION</u>	<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> <u>RDS</u>	<u>RESTORA'N</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> <u>RDS</u>
2	<u>Axial Ventilator Fans</u> 5 ft diameter X 5 ft high. Motor 4 KW 840 rpm. Fan in fair condition. Manufacturer, K. Merz. Bake and rework motor. Remove rust, and paint. Install in plant in high bay over presses. Include hood and duct.	400 (2)	4000 (2)
1	<u>Multistage Pump</u> : Type 4406 800 liters min. 3400 rpm. (Manufacturer) Gotthard Allweiler Pumpenfabrik A. G. Complete with motor on a C.I. base. Motor: 48KW 3540 rpm 57 amp. Type KW 1051/2M Use in mill unknown, do not restore.	3000	none
1	<u>Centrifugal fan</u> : Type 72. 7, direct drive. Manufacturer, Hans Kohl. Motor: 7.5KW 1400 rpm. The impellor is badly corroded. No use for the fan in the mill. Do not restore.	100	none
1	<u>Resin Pump</u> : Manufacturer unknown. Pump mounted with motor on C.I. base. Motor: 3.3KW 1710 rpm. The condition of the pump is fair. Dismantle, clean, remove rust, reassemble, and paint. Bake and rework motor. Use in mixer room.	100	300

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

162

<u>QUANTITY</u> <u>CANTIDAD</u>	<u>EQUIPMENT AND DESCRIPTION</u> <u>EQUIPOS Y DESCRIPCION</u>	<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RDS	<u>RESTORA'N COST</u> <u>COSTO DE RESTAURACION</u> RDS
3	<p><u>Oil Burner Units:</u> Each burner is on a mounting plate. Manufacturer, Oertli A. G., Zurich, Switzerland. These are in good condition. Use two for air heater dryers in fiber preparation area after cleaning and painting. Bake and rework motors. Restoration cost is indicated under air heaters Line A and Line B. Save third unit for a spare.</p>	300	none
3	<p><u>Mixers for Resin Tank:</u> These are portable units with a 4 ft shaft. One mixer has a bent shaft. Repair or replace this shaft. Bake and rework motors. Mixers are in good condition. Use for mixer area.</p>	75	300
1	<p><u>Vibrating Feeder:</u> Feeder No. MRI 933 450/300 - 15.00 Manufacturer, J8st GmbH., Westfield, Germany. This feeder is identical to those used above the mixers on Lines "A" and "B". The feeder is in good condition and can be used on The Moulded Products line. Remove rust, and paint.</p>	400	100
1	<p><u>Hoist:</u> Hoist for "I" beam with geared trolley and hoist motor, hoisting sheave, and block. Estimated capacity is 10 Tons. The unit is still crated. The hoist is in good condition and can be used by maintenance department or over a shipping and receiving area. No restoration is required.</p>	100	none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

163

QUANTITY CANTIDAD	EQUIPMENT AND DESCRIPTION EQUIPOS Y DESCRIPCION	RESIDUAL VALUE VALOR RESIDUAL RDS	RESTORA'N COST COSTO DE RESTAURACION RDS
1	<p><u>Electric Motor:</u> 45KW, 1150 rpm, 82 amp., 440V A.C., drip proof frame. There is a 10" diameter pulley for 9 V- belts mounted on the shaft. This motor is in fair condition. Bake and rework motor and use in the plant or keep for a spare for hammer- mills.</p>	100	300
3	<p><u>Electric Motors:</u> 37KW, 1765 rpm, Type K 1051/4M T. E. F. C. Schorch. The motors are in good condition. Bake and rework motor and use for hammermill installations (Line B) and (Ozama). Restoration costs are included under those headings.</p>	450	none
1	<p><u>Electric Motor:</u> 50KW, 1760 rpm, T. E. F. C. Schorch. Motor is in good condition. Bake and rework motor and use for spare.</p>	150	250
2	<p><u>Centrifugal Fans:</u> 24" diameter housing X 10" wide with integral 1.5 HP motor. Manufacturer, Oertli A. G., Zurich, Switzerland. Hold without restoring as spares for burners. The fans are in fair condition.</p>	50	none

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

164

<u>QUANTITY</u> CANTIDAD	<u>EQUIPMENT AND DESCRIPTION</u> EQUIPOS Y DESCRIPCION	<u>RESIDUAL VALUE</u> VALOR RESIDUAL RDS	<u>RESTORA'N COST</u> COSTO DE RESTAURACION RDS
1	Lot of prefabricated piping spool pieces various sizes and lengths; flanged. Most of them are badly corroded. Location piece marks are missing. Clean up only those pieces that can be readily used in plant.	300	200
1	Lot of structural steel lengths. They are cut, welded, and drilled, but their use is unknown. Scrap value only; do not restore.	100	none
1	Lot of Transite asbestos composition pipe 5" diameter. Store for water line maintenance.	300	none
1	Lot of furnace insulating block in good condition. Size 9.5" X 9.5" X 7" Use for Hot Water Boiler as is.	600	none

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

165

<u>QUANTITY</u> <u>CANTIDAD</u>	<u>EQUIPMENT AND DESCRIPTION</u> <u>EQUIPOS Y DESCRIPCION</u>	<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> RDS	<u>RESTORA'N COST</u> <u>COSTO DE RESTAURACION</u> RDS
1	Lot of fire brick in good condition. Size 7.5" X 4" X 2.5" Use as is for Hot Water Boiler	500	none
7	Crates of steel cauls for plywood platen presses. Approximately 4 ft X 8 ft. 10 to 15 cauls per crate. Some cauls are too rusty for use. Remove rust from other cauls and polish surface.	210 (Lot)	420 (Lot)
22	Drums of DIELDRIN WP 50 20 gallon size drums. It is believed this chemical is ruined.	none	none
1	Double basket strainer with switching valve. 4" size. Strainer is in fair condition. Clean and use.	50	50

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EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

166

<u>QUANTITY</u> <u>CANTIDAD</u>	<u>EQUIPMENT AND DESCRIPTION</u> <u>EQUIPOS Y DESCRIPCION</u>	<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u> <u>RDS</u>	<u>RESTORA'N</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u> <u>RDS</u>
2	Full spools of electrical cable 1286 Kg. net weight each reel. Cable in good condition. Use for Mixer installation, and Moulded Products. Installation cost is included under Panel 4 mixer area.	900	none
40	Bales of fiberglass pipe insulation with chicken wire reinforcement. This material is in good condition. Use as is for hot water pipe insulation.	200	none
1	Lot of miscellaneous hydraulic piping spool pieces. There are no identifying piece marks, and the piping is corroded. Do not use for hydraulic piping.	none	none
1	Crate of log tongs for the woodyard crane. The tongs are in fair condition. Clean up and paint. Use for the woodyard.	50	25

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

167

QUANTITY CANTIDAD	<u>EQUIPMENT AND DESCRIPTION</u> EQUIPOS Y DESCRIPCION	<u>RESIDUAL VALUE</u> VALOR RESIDUAL RDS	<u>RESTORA'N COST</u> COSTO DE RESTAURACION RDS
1	<p>Lot of miscellaneous pressure and temperature gauges. Many of them are in the original boxes. Some gauges are broken or disassembled. Use the equipment that can be used. Assemble gauges in good condition and use. Restoration is included in plant restoration costs where applicable.</p>	200	none
1	<p>Lot of weldneck flanges sizes 1 inch to 6 inch diameter. Restore those that can be used for various piping applications by removing rust. Restoration cost is included in plant restoration costs where applicable.</p>	20	none
1	<p>Lot of weld ells and tube bends standard weight. Restore the pipe fittings that can be used for piping in the plant by removing rust. Restoration cost is included in plant restoration costs where applicable.</p>	80	none
20	<p>Drums of powdered resin. This material has been spoiled and will be discarded. Drum salvage value only.</p>	80	none

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

168

QUANTITY CANTIDAD	EQUIPMENT AND DESCRIPTION EQUIPOS Y DESCRIPCION	RESIDUAL VALUE VALOR RESIDUAL RDS	RESTORA'N COST COSTO DE REPARACION RDS
40	55 gallon drums of liquid resin. This material is probably spoiled and will be discarded. Drum salvage value is doubtful.	none	none
1	Lot of flanged pipe valves. These are metric standards sizes and pressures. Restore those valves that can be used for plant piping by disassembly and cleaning. Restoration cost is included in plant restoration costs where applicable. See below		
	<u>Equivalent Size</u> <u>Pressure psi</u>		
5	2 1/2" globe O.S. and Y. High-pressure		
15	1" globe O.S. and Y. 125		
25	2" globe O.S. and Y. 125		
8	1" check - 125		
25	2" globe - 125		
2	4" globe - 125		
4	5" globe - 125		
4	6" globe - 125		
1	6" check - 125	120	none
3	8" globe - 125		
1	Lot of miscellaneous check, angle, and special valves in mixed sizes. Restore those valves that can be used for plant piping by disassembly and cleaning. Restoration cost is included in plant restoration cost where applicable.	30	none

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

MISCELLANEOUS EQUIPMENT - NOT INSTALLED EQUIPOS DIVERSOS - NO INSTALADOS AHORA

169

<u>QUANTITY</u> <u>CANTIDAD</u>	<u>EQUIPMENT AND DESCRIPTION</u> <u>EQUIPOS Y DESCRIPCION</u>	<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u> <u>RDS</u>	<u>RESTORA'N COST</u> <u>COSTO DE RESTAURACION</u> <u>RDS</u>
1	<u>Base and Frame of Briquetor</u> SMG Type 412 for 2 3/4" Briquette	none In Puerto Rico	none Does not apply
1	<u>Lab. Testing Machine</u> 10 cycle Kottermann 6 ft. x 3.5 x 3.5 ft. Panel is rusted. Outside sections are stainless steel.	none In Puerto Rico	none Does not apply
3	<u>Hot plate for Extruder</u> In single crate	none In Puerto Rico	none Does not apply
1	<u>Control Panel for Moulding Presses</u> Press wasseranlage 6 ft. x 7 ft. x 16 inches. The panel is in good condition.	none In Puerto Rico	none Does not apply

DOMBUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Hot Water Pumping Station (2 pumps at extruder location line C)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
H. Krantz Aachen, Germany		Pumps type 4215 Each pump directly coupled to motor on Cast Iron base. Four inch diameter outlet. Eight 3" valves piped up. Station located north of ex- truder "B" location. Used for hot water to extrusion presses.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Hot water circulation to extruders		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>MANCADO</u> see below	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
	4.4	1730 rpm Schorch (pump No. 5)	
	4.4	1730 rpm Schorch (pump No. 6)	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
Valve stem threads are corroded and valves are jammed. Piping and manifolds are not insulated. Pipes and pumps are corroded. The equipment is in bad condition. Motors are not connected to electrical supply.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Will not be used; do not restore. Starters are not required.			RD\$ none

DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION
INVENTARIO DE EQUIPO Y EVALUACION
MISCELLANEOUS EQUIPMENT - NOT INSTALLED
EQUIPOS DIVERSOS - NO INSTALADOS AHORA

170

QUANTITY CANTIDAD	EQUIPMENT AND DESCRIPTION EQUIPOS Y DESCRIPCION	RESIDUAL VALUE VALOR RESIDUAL RDS	RESTORA'N COST COSTO DE RESTAURACION RDS
10	<p><u>Large Valve for Moulding Press</u> Size 18" x 24" x 16" The exterior of the valve is badly rusted.</p>	<p>none</p> <p>In Puerto Rico</p>	<p>none</p> <p>Does not apply</p>
	<p><u>Miscellaneous pipe fittings</u> Includes 4" x 8" screen.</p>	<p>none</p> <p>In Puerto Rico</p>	<p>none</p> <p>Does not apply</p>
1	<p><u>Electrical Distribution Panel</u> 36" wide x 72" high.</p>	<p>none</p> <p>In Puerto Rico</p>	<p>none</p> <p>Does not apply</p>

APPENDIX II

Domsuisa Equipment Operating Manuals Available at the office of the Corporacion Dominicana de Empresas Estatales.

INDUSTRIAL DOMINICO SUIZA, C. POR A.
Schedule of Machinery Instruction Manuals
Available at the CORDE Offices, Santo Domingo

1. **RFR Lathe Furnier - Schälmaschine GSA**
(RFR = Fleck, Ritter and Roller Berlin N 20)
2. **RFR MSE-27 Guillotina (clipper)**
3. **RFR type LSZ Guillotina Neumatica**
4. **RFR DV-27 -Veneer Reel**
5. **RFR Glue Spreader**
6. **RFR Lathe 12 Pa**
7. **RFR Knife Grinder**
8. **RFR Veneer Jointing Machine**
9. **Winkle Grid Casting Machine**
10. **Winkle Grid Pasting Machine**
11. **Fris Stuttgart Veneer Splicer**
12. **Dolmar Saw Chain Instructions**
13. **Dolmar Schleifapparate**
14. **Botcher and Gessner Lubrication Chart**
15. **Schorch Motor Instr**
Schorch-Werke Ag Rheydt

16. Oertli Oil Preheater
17. Brenner (Johnson Oil Burner)
18. S.M.G. Wood Construction (pre-fabricated houses)
Instruction Manual
S.M.G. = Schweizerische Metallurgische - Gesellschaft
19. S.M.G. - Bagasse Wall Board Plant
20. S.M.G. Home Building
21. Gutor Verteilanlangen Ag. Dottikon
Wiring Diagram
22. Voigt and Haeffner Frankfurt Am Main
Electrical Instr. 3000 Amp Interrupter
23. F.E. Myers Pump Parts
24. Klein Schanzlin and Becker
Sump Pump and Electrical Starter
25. Demag - Hoist Parts List
Slip Ring Motor Instr
26. Drais Furnierleinmischer SLS 150
27. Fritsbarth O.H.G. Loin-Kalk Ray Oil Burner
28. Rapid Maschinenbau Hausch and Kammerer
29. Siemens Motors
30. Mars Maschinenfabrik Ruegger
Wiring, Brake and Hoist
31. Bearbeitungskunde - Machine Tool Use
32. Demag - Air Contractor
(Wissneth and Co. K.G.)

33. **RFR Furnier and Sperrholz Maschinen**
(Veneer Edge Miller) #13F27
34. **Becker - Van Hullen - Krefeld Handling Emulsions**
35. **Single Table Cut-off Saw with Moving Table**
"Altendorff" - Mach. Nr. 61-3-22, 61-3-21
36. **"Holzher" Vorschubapparat Type ETZ**
Karl M. Reich, Maschinenfabrik, Nurtingen, Wurtemberg
37. **"Stehle" Starr - Frasmaschine**
Modell - St F2 #3059
Vertical Router - Machine #3060
#3061
38. **"Wittig" Air Compressor - Type DVN 45**
Machine No. 738.040/29
270 M³/HR at 8 Atm.
39. **H. Krantz - Wärmetechnik - Aachen**
Hot Water Circulation Pump
40. **Böttcher and Gessner - Hamburg**
Drum Sanding Machine
41. **"Adolf Friz - Maschinenfabrik - Stuttgart"**
Modell ZMP 3
Veneer Taping Machine
42. **"Heinrich Hüllhorst Maschinenfabrik"**
Double Cut-off Saw Table
Type DH 50
43. **"Adolf Friz" Maschinenfabrik Mod. LAg**
Vierwalzen - Leimauftragmaschine
(Glue Spreader)
44. **"H. Krantz" - Aachen**
Operating Instructions for Pressurised Hot Water System

45. "G. Joos" Maschinenfabrik - Pfalzgrafenweiler
Hydraulic Press Single Opening
HP - 70S Machine #904
46. "W. Stehle" Memmingen - Bazern
Milling Machine Model STF 3
47. "B. Raimand" - Maschinenfabrik und Eisengreberel
Freiburg im Breisgan - St. Georgen
48. Automatische Vielblattkreissage
Mod KBUMa
49. Globiboard Extrusion Press
Manufacturer will supply instruction manual upon request.

APPENDIX III

Notes to the Summary Balance Sheet Presented in Exhibit D of the Report.

Source: Audit of Domsuisa's Financial Position as of December 31, 1967, by Corporacion Dominicana de Empresas Estatales.

Notes to the Balance Sheet-No. 1

INDUSTRIAL DOMINICO SUIZA, C. POR A.
Improvements and Work in Process
As of December 31, 1967

Improvements and Work in Process - Buildings ^(a)	RD\$642,828.72	RD\$ 595,789.47
Less Work Scheduled to be Done	(-)14,095.42	
Less Indemnification Received, Explosion	(-)32,943.83	
		<hr/>
Improvements and Work in Process - Machinery ^(b)		3,196,586.87
Miscellaneous Fixed Assets		<hr/> 13,141.81
		<hr/> RD\$3,805,517.95

- (a) This figure includes RD\$482,261.14 worth of building contracts let out. It is not known whether these contracts were completed and accepted by Domsuiza's management.

We have an inspection of the work completed made by Engineer Jose E. Garrido of the Urban Appraisal Section of the Banco Agricola on March 21, 1962. As of that date, construction valued at RD\$468,282.33 had been completed and work totalling RD\$13,802.79 was yet to be completed.

- (b) This item represents in its entirety contracts made between Dominico Suiza and the Swiss Metallurgical Corporation. It has been difficult to prove the equipment supplied under these contracts as part of the machinery has been installed and the remainder in the process of installation. As per a letter dated September 30, 1963 from the Swiss Metallurgical Corporation to the Banco de Credito Agricola requesting legal recourse, it has been determined that a large part of the machinery was never unloaded, therefore this item is subject to an adjustment after the inventory and appraisal being made by the Technical Department of CFI.

Notes to the Balance Sheet-No. 2

INDUSTRIAL DOMINICO SUIZA, C. POR A.
 Schedule of Deferred Charges
 As of December 31, 1967

Experimentation Expenses	RD\$ 13,342.06
Non Productive Expenses	183,340.24
Variations and Inventories by Adjustment	7,415.04
Other Deferred Expenses	1,289.67
Constitution and Organization Expenses (a)	<u>460,446.42</u>

RD\$665,833.43

(a) Constitution and Organization

<u>Accounts</u>	<u>Book Balance 1/31/66</u>
Salaries	RD\$122,399.95
Social Security	1,315.25
Stationery and Office Supplies	4,767.92
Communications	2,717.67
Travelling Expenses	13,558.85
Entertainment	5,147.47
Donations and Bonuses	1,162.76
Water and Light	2,103.77
Advertising and Publications	8,955.17
Vehicle Maintenance and Repairs	16,903.01
Bank Commissions	4,093.01
Professional Fees	7,339.50
Easter Bonus	12,084.18
Legal Expenses and Taxes	10,479.50
Wages and Adjustments	38,255.54
Other Insurance	31,729.17
Notices and Retirements	17,967.44
Sundries	12,765.83
Installations Maintenance	1,286.91
Adjustments and Inventories	<u>3,738.72</u>
	RD\$460,446.42

Notes to the Balance Sheet-No. 3

INDUSTRIAL DOMINICO SUIZA, C. POR A.
 Accounts Payable to Suppliers
As of December 31, 1967

<u>Supplies</u>	<u>Balance as per Statements of Accounts</u>
Dalmau Santos, C. por A.	RD\$ 231.55
Importadora Tropical, C. por A.	4,537.84
Ramca, C. por A.	1,360.10
The Shell Co., (West Indies)	4,502.94
Ferreteria Manrique, C. por A.	439.80
Navarro Campora	136.00
M. Vela German, C. por A.	208.65
Mercantil Antillana, C. por A.	14.00
Pintures Dominicanas, C. por A.	246.60
Teodore Dias	1,595.00
Editorial Duarte	63.75
Casa Geraldino, C. por A.	15.00
Armco Internacional & Co.	65.00
Dominican Motors Co., C. por A.	291.85
Del Rio Motors Co., C. por A.	18.20
Ferreteria Villa, C. por A.	480.80
M. Fernandez Gonzalez, C. por A.	889.37
Ferreteria Americana, C. por A.	2,952.11
Fundicion Alamo, C. por A.	23.00
Repuestos, C. por A.	91.15
Editorial del Caribe, C. por A.	721.25
Materiales de Construccion	72.50
A. Pineyro, C. por A.	11.77
Quisqueya Industrial, C. por A.	605.25
Dominguez Badajer, C. por A.	5.90
Caribbean Motors Co., C. por A.	55.00
Litografia Ferrua, C. por A.	42.00
Moises A. Pellerano	130.00

DOMBUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 144
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Hot Water Storage Tanks (two)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Manufacturer unknown		Each tank is 6 ft. in diameter X 16 ft long. Tanks are insulated and are mounted on cradles. The tanks were used for test purposes.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Store hot water for plant processes.		none	
<u>STARTER LOCATION</u> <u>UBICACION DEL ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		none	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
Tanks are in fair condition. Leave in Line C position.			RD\$ 1500 (2)
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Tanks used for test purposes only. Do not restore.			RD\$ none

<u>Supplies</u>	<u>Balance as per Statements of Accounts</u>
Direccion Gral. de Serv. Tecnologicos	RD\$ 62.50
Industria de Asbesto Cemento, C. por A.	3,615.27
E & G Martin, C. por A.	31.86
Quisqueya Motors Co., C. por A.	10.00
Farmacia Mella, C. por A.	11.80
Farmacia Esmeralda	5.75
Nino Ieromazzo	20.43
Implementos y Maquinarias, C. por A.	227.25
Texaco Caribbean Inc,	1,437.14
Esso Standard Oil, S.A.	1,116.85
Astilleros Dominicanos, C. por A.	2,767.70
Miguel Socias	35.00
San Rafael, C. por A.	5,198.99
Ferreteria Read, C. por A.	10,953.54
Atlas Comercial Co., C. por A.	48.68
Alfareria Dominicana, C. por A.	948.75
E. M. Cabral	24.95
Casa Fina, C. por A.	35.00
Federico Baez Gomez	50.00
Ferreteria El Merino, C. por A	5.60
Industrial Construcciones	298.98
Casa Guzman, C. por A.	54.60
La Universal, C. por A.	14.40
Auto Partes, C. por A.	3.90
All American Cables and Radio	120.65
E. T. Heinsen, C. por A.	163.83
Banco de Credito Agricola e Industrial	2,348.84
Empresas Industriales, C. por A.	45.00
R. C. A. Communication	3.60
	<hr/>
Total Accounts Payable - Suppliers	RD\$49,467.44
Less:	<hr/>
	2,217.49
Check #35 of 17-8-66 (Corde) Total	RD\$47,249.95
	<hr/> <hr/>

Notes to the Balance Sheet-No. 4

INDUSTRIAL DOMINICO SUIZA, C. POR A.
Accumulated Interest to be Paid
As of December 31, 1967

	<u>Value</u>	
	<u>Sub-Total</u>	<u>Total</u>
<u>Corporacion Asucarera Dominicana Haina, C. por A.</u>		
Interest on Loan of RD\$350,000 of July 19, 1961 to November 1967	RD\$142,823.11	
Interest December 1967	<u>1,218.86</u>	144,042.08
<u>Banco de Reservas de la Republica Dominicana</u>		
Interest on Loan of RD\$75,000 at 7% annually to December 31, 1967	26,747.06	
Interest on Bank Overdraft of RD\$76,847.34 at 8% annually to December 31, 1967	<u>28,900.71</u>	55,647.77
<u>Estado Dominicano</u>		
Interest of Mortgage subscribed by Banco de Credito Agricola of the Dominican Republic Transferred to the Dominican State by Law No. 6106 of November 14, 1962		
Interest of 21-8-61 to 20-9-62 at 8% annually	26,822.35	
Interest of 1-10-62 to 11-11-62 at 8% annually	<u>3,422.19</u>	
Subtotal	30,255.54	
Adjustment	<u>2,497.16</u>	<u>27,758.38</u>
<u>Total</u>		<u>RD\$227,448.23</u>

Note: Adjustment was made to this account due to the transfer of the account of the Banco de Credito Agricola of the Dominican Republic to Dominican State (see Daily entry #10 and 11).

Notes to the Balance Sheet-No. 5

**INDUSTRIAL DOMINICO SUIZA, C. POR A.
Banco de Reservas of the Dominican Republic
As of December 31, 1967**

	<u>Value</u>
Balance of overdraft as per bank statements as of January 31, 1965	RD\$76,847.34
Balance of overdraft as per books January 31, 1965	<u>76,847.34</u>

Note: Bank overdraft from December 1962, not covered by Credit Documents supplied by the company, and charged with 8% interest annually, as per advice from the Main Banco de Reservas dated February 2, 1965.

Notes to the Balance Sheet-No. 6

INDUSTRIAL DOMINICO SUIZA, C. POR A.
Advances Received
As of December 31, 1967

	<u>Value</u>	
	<u>Sub-Total</u>	<u>Total</u>
<u>Dominican Sugar Corporation, C. por A.</u>		
Contracts dated September 6, 1961 made between the Sons of Rafael L. Trujillo Molina and the Dominican Sugar Corporation transferred to Domsuiza, advances made to Domsuiza at 7% legal interest.		
Bank Deposit Banco de Reservas on 20-9-60	RD\$ 60,000	
Covering payment Swiss Met on 25-9-60	160,000	
Bank Deposit Banco de Reservas 20-11-60	60,000	
Bank Deposit Banco de Reservas 20-11-60	<u>68,000</u>	RD\$350,000.00
Credit Note No. 8-53 of August 1966		<u>141,051.53</u>
		RD\$208,938.47
<u>Instituto Nacional de Auxilios y Vivinda</u>		
Advances received against sale of prefabricated houses	5,000	
Bank Deposit - Banco de Reservas on 9-6-61	5,000	<u>10,000.00</u>
		<u>RD\$218,948.87</u>

Notes to the Balance Sheet-No. 7

INDUSTRIAL DOMINICO SUIZA, C. POR A.
 Fixed Liabilities
 Mortgages to be Paid - Dominican State
As of December 31, 1967

Balance as per Books		<u>RD\$350,000</u>
<u>Detail of Loan:</u>		
Value of Check #3000-21-8-61	RD\$148,635	
<u>Deducted Expenses:</u>		
18% Interest of 21-8-61	RD\$350	
Receipt #1281 August 21, 1961	700	
Commission Expenses on Loan Transaction		150,000
Receipt #1281 August 21, 1961	<u>665</u>	
<u>Deposit with Restrictions:</u>		
Second Entry Received Against Deposit to the Banco de Reservas on September 17, 1961	100,000	
Third Entry Received Against Deposit to the Banco de Reservas on November 8, 1961	100,000	<u>200,000</u>
		<u>RD\$350,000</u>

(A) This mortgage originated on August 21, 1961 at the Banco Agricola and Industrial of the Dominican Republic, and later was transferred to the Dominican State as per Law No. 6106 of November 14, 1962.

Notes to the Balance Sheet No. 8

INDUSTRIAL DOMINICO SUIZA, C. POR A.
Fixed Liabilities
Swiss Metallurgical Corporation
As of December 31, 1967

	<u>Sub-Total</u>	<u>Value</u> <u>Total</u>
Contracts Made	RD\$3,179,000.00	
Less Payments to Accounts	1,182,041.84	
Balance Payable per Contracts		RD\$1,996,958.16
Value of Prefabricated House Received	4,980.00	
Less Payment to Account	3,000.00	
Balance Due		<u>1,980.00</u>
Balance in your favor		1,998,938.16
Less:		
Amount Advanced for Raw Materials	115,000.00	
Value of Raw Materials Received	<u>14,368.98</u>	
Balance to be Received	100,631.12	
Value of Bagasse Board Shipped - Materials and Payments made on same	<u>10,326.48</u>	
Balance in our favor		<u>110,957.60</u>
		<u>RD\$1,887,980.56</u>

Note: In the amount of the Contracts made is included the sum of the value of the machinery and equipment to be supplied by SMC and the installation of same, however, the value of those not received and those which are in the process of installation were not deducted.

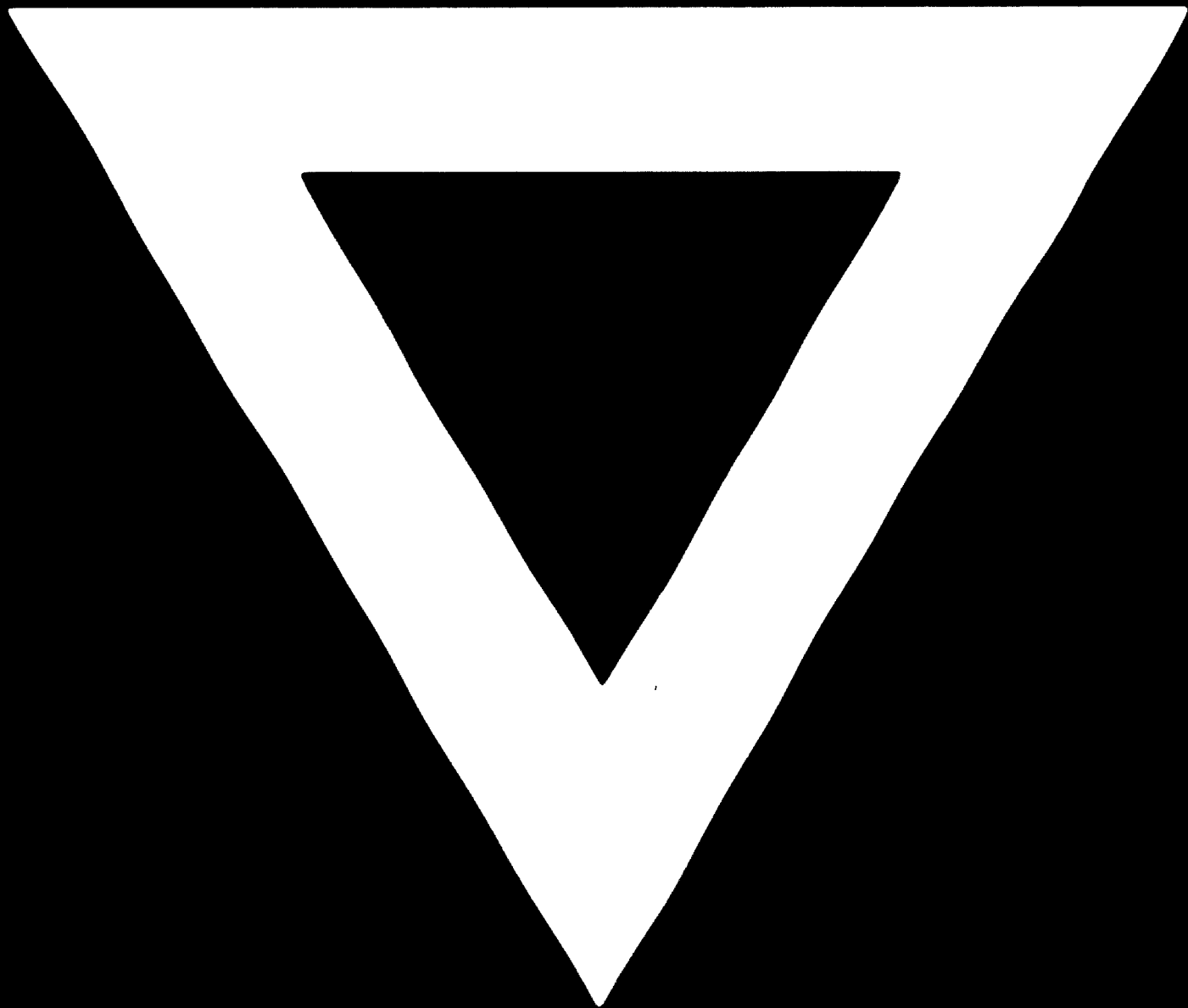
Notes to the Balance Sheet-No. 9

INDUSTRIAL DOMINICO SUIZA, C. POR A.
Capital Stock Authorized and Outstanding
As of December 31, 1967

<u>Paid In Capital - Common</u>		RD\$1,125,500.00
Authorized Shares	RD\$2,500,000.00	
Shares Not Issued	<u>1,374,500.00</u>	
<u>Paid In Capital - Preferred</u>		<u>RD\$ 300,000.00</u>
Authorized Shares	RD\$ 500,000.00	
Shares Not Issued	200,000.00	



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DOMSUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Surface Grinder (Horizontal)	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Ritter, Fleck and Roller		Model MV29 12" bed 10 ft. long Grinder is located in machine shop.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Flat bed grinding operations		none	
<u>STARTER LOCATION</u> <u>UBICACION DEL AVANZADOR</u> on machine	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
	5.5 .8	1750 rpm Bauknecht (grinder motor) type SD 9 Brinkman (coolant pump) carriage motor - undetermined	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL VALUE</u> <u>VALOR RESIDUAL</u>
The grinding wheels, hold down clamps, and jigs are missing.			RD\$
The grinder is corroded and in bad condition.			
Because of the corrosion, the machine may never have its original accuracy.			700
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION COST</u> <u>COSTO DE RESTAURACION</u>
Complete overhaul of machine is required.			
Disassemble, remove all corrosion, and inspect for damage			RD\$
Replace any damaged parts.			
Repaint and lubricate the grinder.			
Bake and rework the motors.			900

DOMBUZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 146
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Portable Air Compressor	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Ingersall Rand		Type 30 Model 22G4 Compressor and tank mounted on wheels.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
Portable air compressor		none	
<u>STARTER</u> <u>LOCATION</u> <u>UBICACION</u> <u>DEL</u> <u>ARRANCADOR</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
on machine		9 Amp. 1720 1 phase 220V.	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The compressor is very old and is in bad condition.			RD\$
It is estimated that 75% of the useful life is used.			50
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Clean and rework the compressor.			RD\$
Bake and rework the motor.			300

DOMBUZA

~~EQUIPMENT INVENTORY AND EVALUATION~~ ~~INVENTARIO DE EQUIPO Y EVALUACION~~

~~SHEET 147~~

~~NO. 14~~

SYSTEM OR PRODUCT SISTEMA O PRODUCTO		NAME OF EQUIPMENT NOMBRE DEL EQUIPO	
Plant Services		Portable Gantry Crane	
EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION			
Merk Zurich, Switzerland		Crane 5000 Kg rating Trolley moves on "I" beam Adjust leg height by pins.	
FUNCTION FUNCION		AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAR INCLUIDO	
General lifting of light materials and equipment.		none	
STARTER LOCATION UBICACION DEL ENCUADRO	KW KW	MOTORS MOTORES	
unknown		unknown (see below)	
PHYSICAL STATE ESTADO FISICO		RESIDUAL VALUE VALOR RESIDUAL	
Hoist unit is missing. Frame is in fair condition.		RD\$ 150	
PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA		RESTORATION COST COSTO DE RESTAURACION	
Replace hoist unit. Remove rust, and paint.		RD\$ 250	

DOMBUIZA

EQUIPMENT INVENTORY AND EVALUATION INVENTARIO DE EQUIPO Y EVALUACION

SHEET 148
HOJA

<u>SYSTEM OR PRODUCT</u> <u>SISTEMA O PRODUCTO</u>		<u>NAME OF EQUIPMENT</u> <u>NOMBRE DEL EQUIPO</u>	
Plant Services		Fork Lift Truck	
<u>EQUIPMENT MANUFACTURER AND IDENTIFICATION</u> <u>FABRICANTE DEL EQUIPO E IDENTIFICACION</u>			
Clark Equipment Company		Carloader 4000 lb.	
<u>FUNCTION</u> <u>FUNCION</u>		<u>AUXILIARY EQUIPMENT INCLUDED</u> <u>EQUIPO AUXILIAR INCLUIDO</u>	
General lifting		none	
<u>STARTER</u> <u>LOCALICION</u> <u>DEL</u> <u>ENCENDIDO</u>	<u>KW</u> <u>KW</u>	<u>MOTORS</u> <u>MOTORES</u>	
none		Gasoline engine	
<u>PHYSICAL STATE</u> <u>ESTADO FISICO</u>			<u>RESIDUAL</u> <u>VALUE</u> <u>VALOR</u> <u>RESIDUAL</u>
The fork lift is in very poor condition and hardly worth repair.			RD\$ 400
<u>PARTS MISSING AND RESTORATION REQUIRED</u> <u>PIEZAS FALTANTES Y RESTAURACION NECESARIA</u>			<u>RESTORATION</u> <u>COST</u> <u>COSTO DE</u> <u>RESTAURACION</u>
Purchase new fork lift.			RD\$ 4000

DOMSUIZA

~~EQUIPMENT INVENTORY AND EVALUATION~~
~~INVENTARIO DE EQUIPO Y EVALUACION~~

~~SHEET 149~~
~~H01A~~

SYSTEM OR PRODUCT SISTEMA O PRODUCTO		NAME OF EQUIPMENT NOMBRE DEL EQUIPO	
Plant Services		Air compressor	
EQUIPMENT MANUFACTURER AND IDENTIFICATION FABRICANTE DEL EQUIPO E IDENTIFICACION			
Wilhelm Poppe		Kompressor #WP4220 250 atm. Two low pressure and two high pressure cylinders. Self cooled.	
FUNCTION FUNCION		AUXILIARY EQUIPMENT INCLUDED EQUIPO AUXILIAN INCLUIDO	
Air compressor Machine unknown		none	
STARTER LOCATION UBICACION DEL ENCENDIDO	KW KW	MOTOR MOTORES	
Unknown		19 Amp type KW 851/8M Schorch	
PHYSICAL STATE ESTADO FISICO			RESIDUAL VALUE VALOR RESIDUAL
Compressor is rusty, and in fair condition.			RD\$ 1200
PARTS MISSING AND RESTORATION REQUIRED PIEZAS FALTANTES Y RESTAURACION NECESARIA			RESTORATION COST COSTO DE RESTAURACION
Dismantle compressor, clean, reassemble and lubricate. Bake and rework the motor.			RD\$ 500