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**Project on Environmentally
Sound Management and Disposal
of POPs Waste in China**

**Measures for Assessing Comprehensive
Management and Disposal Capacity of
Enterprises Co-processing POPs Waste
in Cement Kilns
(Final version)**

**Client: Foreign Economic Cooperation Office of Ministry of
Environmental Protection**

**Implementation: Chinese Research Academy of Environmental
Sciences**

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Contents

Contents	1
Chapter 1 General Rules	2
Chapter 2 Assessment Organization.....	3
Chapter 3 Assessment Procedure.....	4
Chapter 4 Communication Assessment	5
Chapter 5 Site Assessment	7
Chapter 6 Comprehensive Assessment	8
Chapter 7 Performance Test Assessment	9
Chapter 8 Assessment Report and Assessment Result	10
Chapter 9 Supplementary Articles	12

Measures for Assessing Comprehensive Management and Disposal Capacity of Enterprises Co-processing POPs Waste in Cement Kilns

Chapter 1 General Rules

Article 1 (Purpose of the Measures): to perform the obligations of *Stockholm Convention on Persistent Organic Pollutants*, fulfill POPs management and disposal requirements of *National Implementation Plan for the Stockholm Convention on Persistent Organic Pollutants of PRC*, promote the application of POPs waste co-processing in cement kilns, improve the management of POPs waste co-processing in cement kilns, and guarantee the security of POPs waste co-processing in cement kilns, it decides to compile the Measures.

Article 2 (Purpose of Assessment): with the Measures, assess the enterprises which plan to co-process or have been co-processing POPs wastes in cement kilns, screen the enterprises capable of co-processing POPs wastes in cement kilns, shut down unqualified enterprises co-processing POPs waste in cement kilns, reform outdated enterprises co-processing POPs waste in cement kilns and finally complete the purposes of encouraging the advanced, eliminating the outdated, regulating the layout and improving the overall level of POPs waste co-processing in cement kilns.

Article 3 (Assessment Scope): Before receiving license of co-processing POPs wastes in cement kilns from Foreign Economic Cooperation Office of Ministry of Environmental Protection or local environmental protection authority, enterprises which plan to co-process POPs wastes shall attend the assessment; for the enterprises which have received license and have been co-processing POPs wastes for two years, they shall attend the assessment every two years.

Article 4 (Assessment Institution): Foreign Economic Cooperation Office of

Ministry of Environmental Protection is in charge of the assessment of enterprises co-processing POPs waste in cement kilns. The Office can entrust relevant assessment institution to carry out specific works.

Article 5 (Assessment Principles): The basic principle of assessing enterprises co-processing POPs waste in cement kilns is open, impartial, rational, relying on experts, democratic, practical and realistic.

Chapter 2 Assessment Organization

Article 6 (Responsibilities of Administrative Authority): the major responsibilities of Foreign Economic Cooperation Office are compiling *Technical and Managerial Requirements for POPs Waste Co-processing in Cement Kilns* and *Assessment Form for Managerial and Technical Index of POPs Waste Co-processing in Cement Kilns*, confirming assessment institution and signing commission contract, reviewing assessment plan and expert list, supervising the performance of assessment and dealing with representations, inspecting assessment report, releasing assessment results, etc.

Article 7 (Responsibilities of Assessment Institution): According to the commission contract of assessment, assessment institution shall independently organize the assessment of enterprises co-processing POPs waste in cement kilns and the major responsibilities are accepting assessment application, establishing expert database, compiling assessment plan, drawing assessment expert list, organizing communication assessment, site assessment, comprehensive assessment and performance test assessment, submitting assessment reports, etc.

Article 8 (Responsibilities of Enterprises co-processing POPs wastes in cement kilns): the major responsibilities are cooperating with assessment, preparing

application documents, guaranteeing the authenticity and accuracy, and submitting the application documents to assessment institution in time.

Article 9 (Responsibilities of Assessment Experts): the experts shall strictly comply with relevant state laws, regulations and policies, observing the basic principles of assessment and carry out the assessment scientifically, fairly, independently. Experts that directly related with the enterprises co-processing POPs wastes in cement kilns shall withdraw.

Chapter 3 Assessment Procedure

Article 10 (Confirm the list of enterprises assessed): for the enterprises applying for co-processing POPs waste in cement kilns, after submitting application, Foreign Economic Cooperation Office shall decide whether it needs assessment within one month and then confirm the list of enterprises assessed; for the enterprises which have been formally co-processing POPs wastes in cement kilns for two years, Foreign Economic Cooperation Office shall confirm the list of enterprises being assessed next year at the end of this year. After Foreign Economic Cooperation Office confirms the list, it shall inform the assessment institution and the enterprises being assessed.

Article 11 (Submit assessment documents): Enterprises being assessed shall submit assessment documents to the assessment institution within 15 days after the list is released. In case the documents are confidential, it shall be marked.

Article 12 (Establish expert database): Based on the recommendations of enterprises co-processing POPs wastes in cement kilns and other scientific research institutions, the assessment institution shall establish an expert database. The fields of experts in database shall cover scientific research institutions, government departments and enterprises, and the experts shall specialize in environmental science and engineering (hazardous waste disposal and management, environment monitoring

and pollution control technology, etc), chemistry and chemical engineering (hazardous chemical character and safe treatment, etc), and cement production technology (cement production and product quality control, security of cement production, etc).

Article 13 (Confirm the list of withdrawal people): Assessment of enterprises co-processing POPs wastes in cement kilns shall strictly perform withdrawal system. Assessment institution shall confirm the list of withdrawal people in the assessment of each enterprise. People that directly related with the enterprises co-processing POPs wastes in cement kilns shall not attend. Enterprises also can submit a list of withdrawal people they expect and the statement of withdrawal reasons, both of which shall be submitted together with the assessment documents.

Article 14 (Make assessment plan): Based on the Measures, commission contract and other relevant documents, assessment institution shall make specific assessment plan and submit to Foreign Economic Cooperation Office for review. The plan shall include grouping of enterprises co-processing POPs wastes in cement kilns, list of assessment experts, assessment schedule, assessment affairs, etc. Necessary operating documents shall be attached.

Article 15 (Implement Assessment): the assessment of enterprises co-processing POPs wastes in cement kilns is made up of four stages, i.e. communication assessment, site assessment, comprehensive assessment and performance test assessment. The procedures are detailed from Article 16 to 36.

Chapter 4 Communication Assessment

Article 16 (Method of communication assessment): with the assessment documents submitted by enterprises co-processing POPs wastes in cement kilns, assessment institution shall organize experts for communication assessment. Communication assessment shall be finished in 15 days from the assessment

documents submitting deadline.

Article 17 (Contents of communication assessment): for enterprises applying for co-processing POPs wastes in cement kilns, the assessment mainly covers the technical indexes of co-processing facilities, co-processing operation process, pollution control measures, co-processing facility performance testing results, personnel and system construction, etc. For enterprises which have been co-processing for two years, the assessment mainly covers maintenance and modification records of co-processing facilities, co-processing operation record, pollution control record, record of co-processed POPs wastes, regular internal inspection record, production accident record, personnel and system performance record, etc.

Article 19 (Experts of communication assessment): assessment institution shall select 10 experts from the database for communication assessment. The fields of experts shall cover scientific research institutions, government departments and enterprises. Experts shall specialize in environmental science and engineering, chemistry and chemical engineering, and cement production technology.

Article 20 (Results of communication assessment): experts shall assess the enterprises according to *Technical and Managerial Requirements for POPs Waste Co-processing in Cement Kilns* and *Technical Level Assessment Index system in communication and site Assessment* (Chart 1) and *Managerial Level Assessment Index system in communication and site assessment*(Chart 2) in *Assessment Form for Managerial and Technical Index of POPs Waste Co-processing in Cement Kilns*. The assessment is made up of two grades, qualified and unqualified, and the results will be summarized by assessment institution.

Article 21 (Application of communication assessment result): for enterprises applying for co-processing POPs wastes in cement kilns, if the result is unqualified, the assessment will be terminated, there is no need of site assessment, and the application will be rejected. For enterprises which have been co-processing for two

years, if the result is unqualified, the assessment will be terminated, there is no need of site assessment, the license will be withdrawn, and the POPs waste co-processing in cement kilns will be stopped.

Chapter 5 Site Assessment

Article 22 (Method of site assessment): assessment institution will organize experts to carry out site assessment through site investigation. Experts will preside site assessment and there are various methods, e.g. visit and investigate co-processing facilities, meeting, individual interview, etc. During site assessment, experts can enquire or question staff from co-processing enterprises. Site assessment shall be finished in one month from the day communication assessment is completed.

Article 23 (Contents of site assessment): for enterprises applying for co-processing POPs wastes in cement kilns, the assessment mainly covers investigating and assessing the technical indexes of co-processing facilities, co-processing operation process, pollution control measures, personnel and system construction, etc. For enterprises which have been co-processing for two years, the assessment mainly covers investigating and assessing the technical indexes of co-processing facilities, co-processing operation process, pollution control measures at co-processing end, personnel and system construction, etc, as well as verifying communication assessment.

Article 24 (Experts of site assessment): assessment institution shall select 4~5 experts from communication experts for site assessment and 2~3 experts from the database. The fields of experts shall cover scientific research institutions, government departments and enterprises. Experts shall specialize in environmental science and engineering, chemistry and chemical engineering, and cement production technology.

Article 25 (Results and opinions of site assessment): experts shall assess the enterprises according to *Technical and Managerial Requirements for POPs Waste*

Co-processing in Cement Kilns and Technical Level Assessment Index system in communication and site Assessment (Chart 1) and Managerial Level Assessment Index system in communication and site assessment(Chart 2) in Assessment Form for Managerial and Technical Index of POPs Waste Co-processing in Cement Kilns. The assessment is made up of two grades, qualified and unqualified, and the results will be summarized by assessment institution. Meanwhile, experts will put forward assessment opinions for each index and point out existing problems and flaws.

Article 26 (Application of site assessment result): for enterprises applying for co-processing POPs wastes in cement kilns, if the result is unqualified, the assessment will be terminated, there is no need of comprehensive assessment, and the application will be rejected. For enterprises which have been co-processing for two years, if the result is unqualified, the assessment will be terminated, there is no need of comprehensive assessment, the license will be withdrawn, and the POPs wastes co-processing in cement kilns will be stopped.

Chapter 6 Comprehensive Assessment

Article 27 (Method of comprehensive assessment): after site assessment, assessment institution will organize comprehensive assessment. Experts of comprehensive assessment shall listen to the statistics and analysis report of assessment institution on the results of communication and site assessment, reports of enterprise being assessed before the assessment. Comprehensive assessment shall be finished in one month from the day site assessment is finished.

Article 28 (Experts of comprehensive assessment): comprehensive assessment is made up 10 experts. Experts of comprehensive assessment shall be selected from site assessment experts and the insufficient part shall be supplemented from communication assessment experts. The fields of experts shall cover scientific research institutions, government departments and enterprises. Experts shall specialize

in environmental science and engineering, chemistry and chemical engineering, and cement production technology.

Article 29 (Results of comprehensive assessment): experts shall assess and grade the enterprises according to *Technical and Managerial Requirements for POPs Waste Co-processing in Cement Kilns* and *Technical Level Assessment Index System in Comprehensive Assessment* (Chart 3) and *Managerial Level Assessment Index System in Comprehensive assessment* (Chart 4) in *Assessment Form for Managerial and Technical Index of POPs Waste Co-processing in Cement Kilns*.

Article 30 (Application of comprehensive assessment result): for enterprises applying for co-processing POPs wastes in cement kilns, it will be sequenced according to the results of comprehensive assessment and the enterprises in front will be listed as candidate enterprises which be given priority for authorization. For enterprises which have been co-processing for two years, it will be sequenced according to the results of comprehensive assessment and the enterprises at bottom shall be given requirements for reforming.

Chapter 7 Performance Test Assessment

Article 31 (Applicable scope of performance test): before formally authorizing candidate enterprises confirmed by comprehensive assessment, it shall test the performance of co-processing POPs wastes in cement kilns but for the enterprises of temporary co-processing less than 3 months, there is no need of performance test. For enterprises which have been co-processing for two years, it shall repeat the performance test of co-processing POPs waste in cement kilns. Performance test shall comply with the requirements in *Technical and Managerial Requirements for POPs Waste Co-processing in Cement Kilns*. Performance test shall be finished one month from the day comprehensive assessment is finished.

Article 32 (Method of performance test assessment): assessment institution

shall organize experts to assess based on the performance test report submitted by enterprises co-processing POPs in cement kilns. Assessment of performance test shall be finished in one week after performance test report test is submitted.

Article 33 (Contents of performance test assessment): performance test assessment mainly covers operating procedure and results of performance test.

Article 34 (Experts of performance test assessment): assessment institution shall select 4~5 experts from site assessment for performance test assessment. Experts of performance test shall be mainly from scientific research institutions and specialize mainly in environmental science and engineering.

Article 35 (Results of performance test assessment): experts shall assess the enterprises according to the *Technical and Managerial Requirements for POPs Waste Co-processing in Cement Kilns* and *Performance Test Assessment Index System (Chart 5)* in *Assessment Form for Managerial and Technical Index of POPs Waste Co-processing in Cement Kilns*. The assessment is made up of two grades, qualified and unqualified, and the results will be summarized by assessment institution.

Article 36 (Application of performance test assessment results): for candidate enterprises applying for co-processing POPs wastes in cement kilns, if the result is unqualified, the candidate title will be cancelled and the application will be rejected. For enterprises which have been co-processing for two years, if the result is unqualified, the license will be withdrawn, and the POPs wastes co-processing in cement kilns will be stopped.

Chapter 8 Assessment Report and Assessment Result

Article 37 (Submit assessment report): after the assessment is finished, assessment institution shall submit assessment report and necessary appendix to Foreign Economic Cooperation Office of Ministry of Environmental Protection. The report mainly includes: information of enterprise assessed, specific assessment plan,

assessment situation and conclusions, assessment result statistics and analysis, summarization and major problems of enterprises assessed, recommendations on the technology and management of POPs waste co-processing in cement kilns of enterprises assessed, etc.

Article 38 (Announce assessment results) Foreign Economic Cooperation Office of Ministry of Environmental Protection shall complete the review of assessment report within one week after the assessment is finished, confirm and announce the assessment results. Meanwhile, the specific assessment situation of enterprises assessed shall be feedback correspondingly.

Article 39 (Dissidence of assessment results): within one month the assessment result is announced, any unit or individual can raise dissidence to the assessment results to Foreign Economic Cooperation Office of Ministry of Environmental Protection. Dissidence shall be made in written form and necessary evidence shall be attached. Foreign Economic Cooperation Office of Ministry of Environmental Protection shall deal with the dissidence within one months the dissidence is raised.

Article 40 (Rewards and punishment after assessment): for enterprises applying for co-processing POPs wastes in cement kilns, if any assessment of communication assessment, site assessment and performance test assessment is unqualified, the application will be rejected; if all communication assessment, site assessment and performance test assessment are qualified, it will be authorized as enterprise co-processing POPs wastes in cement kilns.

For enterprises applying for temporarily co-processing POPs wastes in cement kilns without performance test assessment, if any of communication assessment and site assessment is unqualified, the application will be rejected; if both communication assessment and site assessment is qualified, it will be sequenced based on comprehensive assessment and the enterprises in front will be given priority to obtain authorization of co-processing POPs wastes in cement kilns.

For enterprises which have been co-processing for two years, if any assessment

of communication assessment, site assessment and performance test assessment is unqualified, the authorization of co-processing POPs wastes in cement kilns will be withdrawn and the co-processing of POPs wastes in cement kilns will be terminated. If all communication assessment, site assessment and performance test assessment is qualified, it will be sequenced based on comprehensive assessment, the enterprises in front will be given priority to co-process newly discovered POPs wastes, and the enterprises at bottom shall be given requirements for reforming..

Enterprises whose application of co-processing POPs wastes in cement kilns is rejected or whose authorization is withdrawn can apply for next assessment.

Article 41 (Consequence of abandoning assessment): enterprises, which fail to submit assessment documents in regulated time or suspended the assessment in process, are regarded as abandoning application or authorization of co-processing POPs wastes in cement kilns.

Chapter 9 Supplementary Articles

Article 42 (Confidential responsibility): without the permit of entrusting party, assessment institution, assessment staff and experts shall not release or publicize the contents of assessment report or relevant documents, data and statistics to any party in any method.

Article 43 (Assessment fee): enterprises being assessment shall pay certain amount of assessment fee and the specific amount is determined by Foreign Economic Cooperation Office of Ministry of Environmental Protection according to relevant regulations. Assessment institution shall not charge any fee from enterprises being assessed in any form.

Article 44 (Implementation time): the Measures come into effect on the day of announcement.

Article 45 (Right of interpretation): Foreign Economic Cooperation Office of Ministry of Environmental Protection reserves the right of interpretation to the Measures.