

Regulation 49 (previously Regulation 46 bis) [IWG ENV]

Environmental Management and Monitoring

1. The Contractor shall monitor the Environmental Impacts and Environmental Effects of its activities on the Marine Environment to determine whether they are having or are likely to have harmful effects on the Marine Environment. The monitoring shall include a comparison between monitoring data and threshold values and a comparison between monitoring data and the effects predicted in the Environmental Impact Statement, to document the actual effects on the Marine Environment.
2. Monitoring shall be conducted until completion of a Closure Plan.
3. The Contractor shall manage Environmental Impacts and Environmental Effects to ensure that these are consistent with predictions in the Environmental Impact Statement.
4. If the Contractor identifies harmful effects on the Marine Environment that arise from breach of any rules, regulations and procedures of the Authority, including the applicable Standards, taking into account relevant Guidelines, the Contractor shall treat the matter as an Incident and proceed in accordance with Regulation 33.
5. Monitoring and management of the activity shall be based on the Environmental Management and Monitoring Plan, in accordance with Regulation 50 and Annex VII which will be submitted as part of the application in accordance with Regulation 7 paragraph 3bis (h).

[Regulation 50 (previously Regulation 46 ter) [IWG ENV]

Environmental Management and Monitoring Plan

1. The purpose of an Environmental Management and Monitoring Plan is to provide information on how the Contractor shall meet the management and monitoring obligations set forth in Regulation 49.
2. The Environmental Management and Monitoring Plan shall include all elements and matters prescribed by the Authority in Annex VII to these Regulations and shall:
 - (a) Incorporate [environmental objectives, including] site-specific environmental objectives and environmental performance standards, which are designed to achieve the environmental policy and objectives of the Authority [set out in Regulation 44ter] and [are compatible with] applicable Standards and [taking into account] the relevant Regional Environmental Management Plan ;
 - (b) Incorporate measurement criteria, in accordance with the applicable Standard and reflect its methodology to determine whether the environmental objectives are being met and that the operation is compliant with rules, regulations and procedures of the Authority;
 - (c) Incorporate measures and procedures on;
 - (i) How the [Environmental Impacts and] Environmental Effects of Exploitation will be monitored, in accordance with the applicable Standards;
 - (ii) How the Mitigation and Management measures, including pollution control and Mining Discharge in Regulations 53 bis and 53 ter will be

implemented and how the effectiveness of such measures will be monitored [and evaluated];

(iii) How spatial and temporal measures, including Preservation Reference Zones and Impact Reference Zones, will be utilised and implemented;

(iv) How corrective actions will be implemented if the monitoring results in new knowledge;

(v) A description of the Environmental Management System and

(vi) How continual improvement will be achieved, including by testing assumptions and predictions made in the Environmental Impact Statement, improving environmental knowledge, and reducing residual uncertainties remaining from the Environmental Impact Assessment.

[3bis A draft Environmental Monitoring and Management Plan or proposal by a Contractor to amend an existing plan shall be subject to Stakeholder consultation in accordance with Regulation 93bis. Coastal states shall be engaged in accordance with Regulation 93ter].

4. The Contractor shall assess and maintain the currency and adequacy of [its] Environmental Management and Monitoring Plan during the term of its Exploitation Contract, including as a result of management review [or audit] under Regulation 50 bis, [or any] performance assessment under Regulation 52, and with modification to the Plan of Work under Regulation. In conducting such an assessment, the Contractor shall assess the efficacy, timeliness, relevance and accuracy of flow of] information and data derived from implementation of the Environmental Management and Monitoring Plan

Regulation X

Reporting on Environmental Monitoring and Management

1. The Contractor shall report annually in writing, to the Secretary-General on the implementation and results of the Environmental Management and Monitoring Plan in accordance with Regulation 38, subparagraph 2(g).

2. The Contractor shall submit to the Secretary General environmental data and information in the required standardized format, in real [time or at [monthly intervals]/], consistent with Best Environmental Practice, and in accordance with the applicable Standards, and taking into account the applicable Guidelines.

3. 3. The Secretary General shall release the environmental data and information publicly in accordance with Regulation 92bis. The Secretary-General shall transmit annual reports to the Commission for its consideration pursuant to Article 165 of the Convention and publish them pursuant to Regulation 38(3);

Regulation 50 bis (previously Regulation 46) [IWG ENV]

Environmental Management System

1. A Contractor shall have in place, implement and maintain an Environmental Management System, with the purpose of implementing the Environmental Management and Monitoring Plan.

2. The Environmental Management System shall be detailed in a separate document, which shall be included in the application in accordance with Regulation 7 paragraph 3 bis (h). A Contractor shall ensure that its Environmental Management System supports the Contractor in their performance of the Plan of Work to deliver the Authority's environmental objectives, including those reflected in the [relevant] Regional Environmental Management Plan, and deliver the Contractor's environmental commitments under its Contract, and facilitate

Commented [MA1]: Is EMS doc part of the PoW? General question on how the EMS should be considered - if only a tool to fulfill obligations, is it covered by Contractor's general obligation? If something additional is required, how does this fit into the process? Is it part of the EMMP? If in a general obligation, how does the EMS fit into the application process?

Commented [AM02]: Frequency to be reviewed by the threshold group. May be vary depending on data.

effective reporting to the Authority in connection with environmental performance, pursuant to Regulations 33, 34, 38, 39, and 52.

3. The Contractor shall assess and maintain the currency and adequacy of [its] Environmental Management System during the term of its Exploitation Contract, including as a result of management review [or audit] under Regulation 50 bis (5), [or any] performance assessment under Regulation 52, or any modification to the Plan of Work under Regulation 57. In conducting such an assessment, the Contractor shall assess the [ability of the Environmental Management System effectively to implement the Environmental Management and Monitoring Plan,

4. [The Contractor shall ensure that its Environmental Management System shall be reviewed and undergo periodic audits by an independent recognized and accredited international or national organization, in accordance with applicable Standards. The results of the audit and any changes made to a Contractor's Environmental Management System shall be included in the Contractor's annual reports.

5. A proposed change to a Contractor's Environmental Management System shall be treated the same as a modification of a Plan of Work, pursuant to Regulation 57.

Regulation 51 [IWG ENV]

Compliance with Environmental Management and Monitoring obligations

1. The Commission shall review the [real-time data] submitted by the Contractor [monthly/annually] pursuant to regulation X(2).

2. The Contractor shall review the implementation of the Environmental Management and Monitoring Plan on a [regular] basis. Such review shall include:

- (a) The efficacy, timeliness, relevance and accuracy of flow of] information and data derived from monitoring the Exploitation and its impacts on the Marine Environment, and Impact Area, [including the Mining Area]; and
- (b) The accuracy of the findings of the Environmental Impact Assessment as set out in the Environmental Impact Statement.

3. If the Commission considers that the environmental data, or its quality, indicates that the Contractor does not meet its obligations, the Commission shall refer the matter to the Compliance Committee without undue delay. The Secretary-General shall notify the Contractor, the Sponsoring State, and the Council that the matter has been referred.

4. Where, as the result of the review by the Commission under Regulation 52 paragraph 7, the Commission concludes that a Contractor has failed to comply with the terms and conditions of its Environmental Management and Monitoring Plan, the Commission shall refer the matter to the Compliance Committee. The Secretary-General will notify the Contractor, Sponsoring State and Council that the matter has been referred.

5. The Compliance Committee shall assess any matter referred to it under this Regulation paragraph 4 and 5 and take any necessary actions consistent with regulation 102 and 103. This may include:

- a. Requesting the Commission to provide further information as to the facts and circumstances giving rise to the referral of this matter;
- b. Convening, with the support of the Secretary-General, a process to liaise with the Contractor;

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- c. Exercising the powers conferred upon the Committee under paragraph 1 of Regulation 103; or,
- d. Inviting the Council's attention to the matter.

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Regulation 52 [IWG ENV]

Performance assessments of the Environmental Management and Monitoring Plan

1. A Contractor shall conduct performance assessments of [its] Environmental Management and Monitoring Plan, [in accordance with this Regulation]. In conducting such a performance assessment of the Environmental Management and Monitoring Plan, the Contractor shall [, using an Independent Auditor,] assess:

(a) The continued appropriateness and adequacy of the plan, including the management conditions and actions attaching thereto;

(b) The conformity of the plan with measures included in the applicable Regional Environmental Management Plan [including any revisions or updates to the Regional Environmental Management Plan that may be adopted from time to time,];

(c) The accuracy of the findings of the Environmental Impact Assessment as set out in the Environmental Impact Statement;

(d) That any relevant changes in knowledge, technology, mining patterns, monitoring techniques and detection capabilities, [that were not taken into account in developing or previously updating the Environmental Management and Monitoring Plan which are relevant,] are reflected [according to Good Industry Practice, Best Available Techniques and Best Environmental Practices];

(e) The reports of the Environmental Management and Monitoring Plan, as well as the comments and evaluation from the Commission to the reports in accordance with Regulation 48 above, and any comments received by the [Commission/Compliance Committee] in accordance with Regulation 51.

2. The frequency of a performance assessment shall be in accordance with the period specified in the approved Environmental Management and Monitoring Plan and shall occur at least every 24 months.

3. An [additional] ad hoc performance assessment [under this Regulation] may [also] be requested by the [Compliance Committee] following:

(a) An Incident [or Notifiable Event];

(b) Issuance of a compliance notice under Regulation 103; or

(c) When deemed necessary by the [Committee following investigation into third-party information submitted to the [Authority] or following investigation into matters referred by the Commission under regulation 51.

4. A Contractor shall submit the findings in a performance assessment report to the Secretary-General in accordance with, and in the format set out in, the applicable Standards and taking into consideration Guidelines.

5. Before submission of the performance assessment report, [the Contractor shall conduct a consultation on a draft performance assessment report in accordance with Regulation 93bis.]

6. The Commission shall review the performance assessment report in accordance with the applicable Standard and taking account of the Guidelines. [within 60 Days of receipt of such report and comments]. The [Commission] shall, where necessary and appropriate, consult external competent, independent experts

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in its review of the performance assessment.

7. Where the Commission upon review of the report, considers the performance assessment to be unsatisfactory or the report submitted to be inadequate, the Commission may require, after providing the Contractor with a reasonable opportunity to address any inadequacies, the Contractor to:

(a) Submit any relevant supporting documentation or information requested by the Commission including a revised report; or

(b) Appoint, at the cost of the Contractor, another independent competent person to conduct the whole or part of the performance assessment and to compile a report for submission to the Secretary-General and review by the Commission.

8. Where, as a result of paragraph 7 above, a revised assessment and report is produced, a new consultation in accordance with Regulation 93 bis shall be conducted on the revised assessment.

9. Where, as the result of a review by the Commission under paragraph 6 above, the Commission concludes that the Environmental Management and Monitoring Plan is determined to be inadequate in any material respect, the Commission shall require the Contractor to deliver a revised Environmental Management and Monitoring Plan, taking into account the findings and recommendations of the Commission. A revised plan shall be [treated the same way as a modification of a Plan of Work pursuant to Regulation 57 mutatis mutandis].

10. The Commission shall report annually to the Council on performance assessments [conducted pursuant to this Regulation,] and any action taken pursuant to paragraphs 6 to 9. Such report shall include any relevant recommendations for the Council's consideration, [and] shall be published on the Authority's website.