

**TEMPLATE FOR SUBMISSION OF TEXTUAL PROPOSALS DURING THE 28TH SESSION:
COUNCIL - PART I**

Please fill out one form for each textual proposal which your delegation(s) wish(es) to amend, add or delete and send to council@isa.org.jm.

1. Name of Working Group:

Environment

2. Name(s) of Delegation(s) making the proposal:

Italy

3. Please indicate the relevant provision to which the textual proposal refers.

Annex IV chapter 3.2

4. Kindly provide the proposed amendments to the regulation or standard or guideline in the text box below, using the “track changes” function in Microsoft Word. Please only reproduce the parts of the text that are being amended or deleted.

Provide details of the type of resource proposed for extraction (e.g. sea floor massive sulphides, polymetallic nodules, ferromanganese crusts), the type, size, shape, tonnage, volume and grade and distribution pattern of the mineral deposits. of commodity and its grade and volume Estimates of the inferred indicated resource and probable reserves should be provided on the basis of the international CRIRSCO reporting template or national accepted codes (NI 43-101, JORC Code) and the official ISA mineral classification (PMN, PMS and CFC).

5. Please indicate the rationale for the proposal. [150-word limit]

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Provide details of methodologies of exploitation (drilling, dredging, excavating, disposing of waste, constructing and operating or maintaining installations, pipelines and other devices) and give specifications of the technologies to be employed, including relevant diagrams and drawings, that address: the Mining Workplan, timelines and the general mining sequence, the technologies to be employed to recover the resource from the seabed, the depth of penetration into the seabed the specific technologies developed to reduce the direct impact of mining activities (e.g. noise, light, plumes) and other details of the mining activities subsea and on the surface. Describe the energy requirements of the requisite machinery.

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Provide a description of all methods to be used to transport the mineral-bearing ore, including from the sea floor to the surface, and any methods related to the trans-shipment of the mineral-bearing ore, including transfers at sea. Describe the energy requirements of the requisite machinery. Also, a description of any specific technologies developed to reduce impacts should be included, highlighting at which levels, in the water column (generation of plume at the seafloor, turbidity in the water column, addition of bottom sediments to the surface waters) resulting impacts to the marine ecosystem, may be mitigated during the different phases for collection, separation, lifting, transportation, processing, and discharge of effluents.

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Annex IV chapter 3bis

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Delete Section and consider within Guidelines

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Section 3bis is very specific and more suitable for a Guideline.

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Annex IV chapter 4.7

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Provide a description of chemical oceanographic properties at the site ~~and~~ above the site throughout the water column and horizontally from the proposed mine site, that includes nutrients, particle loads, temperature, oxygen, salinity, density, particulate and dissolved organic matter, pH, chemical composition, including, ~~but not limited to~~ concentrations of trace metals, dissolved gas profiles, depth range and characteristics of oxygen minimum zone, redox regimes, carbonate saturation, and spatial (horizontal and vertical) and temporal (seasonal and interannual) variability of these properties, and vent-fluid characteristics if applicable. ~~Provide projections of how and where these aspects are likely to change over the next 50 years (or time period relevant to the contract term and subsequent Closure period.)~~

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Annex IV chapter 7.2ter

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Effects to be considered include:

(a) changes in temperature and salinity of water,

(b) optical characteristics / water clarity

(c) turbidity / particulate loading

(d) sediment characteristics (including changes in the sediment composition, grain size, density and pore-water profiles)

(e) discharge plumes (frequency, spatial extent, composition and concentration, etc.)

(f) primary sediment plume (frequency, spatial extent, composition and concentration)

(g) dissolved gas levels

(h) nutrient levels

(i) For a sea floor massive sulphide project, the modification of vent-fluid discharges, if present, should be addressed.

5. Please indicate the rationale for the proposal. [150-word limit]

Please, include reference to biological and ecotoxicological impacts in the list