

Guidelines – Environmental Reporting

Issued by: Inspection Department – Operations Section

1.0 Air Environment

This section establishes reporting, testing, monitoring and analyses requirements for sources of air pollution located or proposing to locate in FZ. The purpose of these requirements is to enable the Authority to assess compliance with the ambient air quality criteria and air emission limitations.

Prior to commencing construction or modification, all sources of air pollution not specifically exempted must prepare and submit an EIA Report and include a section pertaining to the air environment. Depending on the nature and size of the source, Authority may require the applicant to prepare an ambient air quality analysis and/or provide ambient air monitoring data. After start-up, large emission sources and potentially hazardous or nuisance-type sources are required to conduct source emission (performance testing) and report the results to Authority for compliance evaluation. For certain specified emission sources, continuous air emission monitoring and quarterly reporting is required.

At any time, after start-up, Authority may request any industrial facility to prepare an updated air emissions inventory or provide other information relating to the source in question.

Air Emissions Performance Tests

- a. Performance tests are required on a case-by-case basis, for any source that may be hazardous to the environment or may be an odor nuisance. The aim of performance testing is to verify a pollutant's emission concentrations or rate at a point source and to ensure that there is no violation of the industrial source emission criteria or any emission limit used for compliance evaluation. It should be noted that as a general industry requirement stack testing ports and work platforms should be installed at all facilities, which have a potential to release pollutant quantities or are otherwise subject to the criteria stated above.
- b. Performance tests shall be done at earliest after normal operation. These tests shall be conducted by an independent a Consultant or PCFC approved Laboratory. The date, time and place of any performance test shall be given to Authority at least one week in advance so they may witness such tests.
- c. Performance tests shall consist of the determination of exhaust gas temperatures and volumetric flow rates and gas analyses for the pollutant(s) and efficiency of abatement equipment for which the test is required. The tests shall be conducted according to the accepted international reference test methods.



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- d. Each performance test shall consist of a minimum of three separate sampling runs conducted within a 48-hour period. Each run shall be obtained while the source is operating at normal load. The arithmetic mean of the results of the three runs shall be used for the purpose of determining compliance with applicable emission limitations.
- e. The results of the performance tests shall be submitted to Authority within one month of their completion. If Authority finds that procedures and/or methodologies used for any tests were inappropriate or defective, it may require a retest.

2.0 Water Environment

This section establishes reporting, testing, monitoring and analyses requirements for sources of water pollution located or proposing to locate at the FZ. The purpose of these requirements is to enable Authority to assess compliance with water quality criteria and wastewater discharge criteria specified in earlier sections of this document.

At least six (6) months prior to commencing construction of any industrial or other wastewater-producing facility, or adding to or modifying an existing facility, an Environmental Impact Assessment (EIA) report, containing a water environment details as per Authority EIA Guidelines shall be submitted by the industry or facility to Authority. After start-up, the facility owner/operator is required to sample/analyze effluents continuously and demonstrate compliance with the discharge criteria specified earlier. A monthly analysis report is required. For groundwater appropriate number of boreholes will be installed for quarterly monitoring and reporting. For some effluent parameters, a continuous monitoring and quality reporting program is required on a case-by-case basis.

Wastewater Discharge Performance Testing

Performance tests are required for any facility that discharges wastewater to the FZ harbor; or Gulf (open sea). Performance tests shall be done within a month time after normal operation. The date, time and place of any performance test shall be given to Authority at least one week in advance.

3.0 Solid / Hazardous Wastes

All FZ companies are required to closely follow PCFC / DM relevant rules and requirements (see relevant PCFC-ER section and pertinent EG). A semi-annual wastes generation / disposal details report is required.

4.0 Noise Environment

In line with Authority's requirements for premises, a noise performance testing, at the boundary fence-line would be conducted within one month upon normal operation. On a case-by-case basis, an annual noise level testing and reporting is required.