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SCHEDULE D

SAFETY, HEALTH AND ENVIRONMENTAL REQUIREMENTS

# GENERAL PROVISIONS

1. COMPLIANCE WITH SAFETY, HEALTH AND ENVIRONMENTAL REQUIREMENTS

CONTRACTOR shall provide and maintain each WORK Site in a manner that is free from recognized hazards that could cause death, physical harm or negative impact to the health of any person entering the WORK Site.

CONTRACTOR shall comply at all times with SAUDI ARAMCO safety, health and environmental (SH&E) requirements, specifications, regulations, procedures and standards, including the following:

1.1 SAUDI ARAMCO General Instructions (GIs) and Environmental Impact Assessment Procedure (SAEP-13);

1.2 the SAUDI ARAMCO Construction Safety Administrative Requirements (CSAR), which is Volume One of the SAUDI ARAMCO Construction Safety Manual (CSM);

1.3 the SAUDI ARAMCO Work Site Safety Manual (WSSM), which is Volume two of the CSM;

1.4 the SAUDI ARAMCO Environmental Health Code (SAEHC),

1.5 the SAUDI ARAMCO Safety Handbook;

1,6 all applicable Saudi Arab Government SH&E regulations and, where applicable, International Treaties and conventions ratified by the Saudi Arabian Government; and

1.7 all additional requirements specified in this Schedule “D”.

(Collectively referred to in this Schedule “D” as the “SH&E Requirements”.)

Changes in SH&E Requirements shall be effective immediately, unless otherwise noted in writing by SAUDI ARAMCO. In case of conflicting requirements, the most stringent requirement shall apply unless otherwise noted. SAUDI ARAMCO shall compensate CONTRACTOR, via Change Order or Amendment, for any significant increases in the cost of the WORK resulting from changes to SH&E Requirements after the effective standards cutoff date, or, if no effective standards cutoff date is specified, the bid closing date or proposal submission date, as appropriate.

CONTRACTOR shall maintain at the WORK Site copies of the most current version of the SAUDI ARAMCO Construction Safety Manual (CSM) and all applicable SAUDI ARAMCO GIs, handbooks and engineering standards, as well as the approved Hazard Identification Plan (HIP) and any Contractor Site Specific Safety Plan (CSSP). CONTRACTOR may request from the Company Representative copies of the CSM and other SAUDI ARAMCO GIs, handbooks and engineering standards that are applicable to this Contract.

Additionally, CONTRACTOR shall comply with all SAUDI ARAMCO Operations Instruction Manuals applicable to the WORK and/or the WORK Site, and shall maintain at the WORK Site copies of the most recent version of the same. Without limiting the foregoing, for offshore WORK, CONTRACTOR shall comply with Northern Area Oil Operations' Operations Instruction Manual (OIM) Number 1.519, "Work Around Offshore Producing Facilities".

During CONTRACTOR's performance of the WORK, CONTRACTOR shall also take or cause to be taken any additional measures that are requested by SAUDI ARAMCO to prevent the injury or death of any person, any damage or loss of property, loss of process, or damage to the environment.

CONTRACTOR supervisory personnel or other qualified staff shall be present at the WORK Site at all times while WORK is in progress.

SAUDI ARAMCO reserves the right to monitor and inspect any WORK Site, Lay Down Yard, fabrication yard, clinic, camp or dining facility (on or off SAUDI ARAMCO property) for compliance with the SH&E Requirements. SAUDI ARAMCO reserves the right to reject, remove from site, or have CONTRACTOR destroy any tools or equipment found to be defective, of substandard quality or noncompliant. Non-third party factory produced tools, including but not limited to home-made and shop-made tools, are strictly prohibited. SAUDI ARAMCO reserves the right to require CONTRACTOR to fully vacate, including fully removing all structures, materials and equipment, from Lay Down Yards, fabrication yards, clinics, camps and dining facilities on SAUDI ARAMCO controlled land if they are found to be non-compliant with SH&E Requirements. Costs incurred by CONTRACTOR as a result of such removal shall be solely CONTRACTOR’s responsibility, and any resultant CONTRACTOR performance delays shall not be deemed excusable hereunder.

Without limiting the application of any other provision in this Contract, CONTRACTOR shall be responsible to ensure that all members of the CONTRACTOR Group fully comply with all requirements of this Schedule “D”. Costs incurred by CONTRACTOR as a result of such removal shall be solely CONTRACTOR’s responsibility, and any resultant CONTRACTOR performance delays shall not be deemed excusable hereunder.

1. DEVIATION FROM SAFETY, HEALTH AND ENVIRONMENTAL REQUIREMENTS

Any deviation by CONTRACTOR from applicable SH&E Requirements shall not be accepted unless it is approved, in advance, in writing by the Company Representative in cooperation with the responsible SAUDI ARAMCO organization(s).

1. FAILURE TO COMPLY

Any non-conformance with SH&E Requirements or security protocols by CONTRACTOR shall be considered a substantial and material breach of this Contract. Upon receiving notification of a failure to meet any SH&E Requirement, CONTRACTOR shall immediately take all necessary corrective actions. Unless otherwise specifically provided in this Contract, all corrective actions shall be at CONTRACTOR's expense. In addition, the Company Representative may direct CONTRACTOR to suspend all or part of the WORK pursuant to Schedule “A” until satisfactory corrective action has been taken. In addition to any terms contained in this Contract, costs incurred by CONTRACTOR as a result of WORK suspension or termination for cause by SAUDI ARAMCO resulting from a failure to meet SH&E Requirements shall be solely CONTRACTOR's responsibility, and any resultant CONTRACTOR performance delays shall not be deemed excusable hereunder.

1. SAUDI ARAMCO ASSISTANCE

CONTRACTOR may request clarification or explanation from SAUDI ARAMCO regarding any of its SH&E Requirements. The Company Representative (or the Company Representative’s designated party or parties) may provide assistance to the CONTRACTOR by explaining good safety and sound environmental practices, pointing out unsafe conditions, and by applying experience and judgment, to assist CONTRACTOR in improving safety and to safeguard the environment. Such assistance by SAUDI ARAMCO shall in no way relieve CONTRACTOR of its responsibilities as set forth in this Schedule “D” or make SAUDI ARAMCO financially or otherwise responsible for such assistance.

END OF GENERAL PROVISIONS

SECTION I - SAFETY AND HEALTH REQUIREMENTS:

1. CONTRACTOR SAFETY REQUIREMENTS

CONTRACTOR management and supervision shall be fully responsible for proper implementation of all applicable safety-related contractual requirements and expectations described in the SH&E Requirements. CONTRACTOR shall allocate adequate resources to safely and effectively execute the WORK in accordance with the SH&E Requirements.

1. CONTRACTOR SITE SAFETY PROGRAM & HAZARD IDENTIFICATION PLAN

As required by the CSAR, CONTRACTOR shall prepare and submit a contract-specific Contractor Site Safety Program (CSSP) to the Company Representative for concurrence within fifteen (15) working days of Contract execution. CONTRACTOR shall ensure full implementation of the CSSP. The CSSP shall be available at each WORK Site at all times.

For long form capital project construction contracts where SAUDI ARAMCO Project Management is the proponent or as otherwise requested in writing by SAUDI ARAMCO, the CONTRACTOR shall have safety audits performed by an independent third party six (6) months after starting WORK, and at least every nine (9) months thereafter, to verify proper implementation of the CSSP at the WORK Site and make recommendations to improve CONTRACTOR's safety programs and execution, per SAUDI ARAMCO Safety Management Guide for Independent Third Party Contractor Site Safety Program (CSSP) Reviews. A list of approved independent third parties may be requested from the Company Representative. CONTRACTOR may use any other independent third party to conduct such safety audits only after securing the advance written approval from the Company Representative. CONTRACTOR shall promptly provide copies of all audit reports to the Company Representative.

CONTRACTOR shall prepare and submit a Contract-specific Hazard Identification Plan (HIP), along with all required pre-mobilization drawings and plans as described in the CSAR, to the Company Representative for concurrence within fifteen (15) working days of Contract execution. CONTRACTOR shall ensure full implementation of all safety controls and precautions noted in the HIP. No WORK shall commence at a WORK Site before the HIP has been concurred with by SAUDI ARAMCO as described in the CSAR. The HIP shall be revised and amended, as needed, when conditions change, new hazards are introduced, or the scope of work changes.

CONTRACTOR shall develop a Job Safety Analysis (JSA) and Method Statement prior to the start of any WORK involving high-risk activities and as requested by the Company Representative, per the SAUDI ARAMCO Safety Management Guide for Job Safety Analysis.

1. CONTRACTOR SAFETY STAFF

CONTRACTOR shall provide a qualified Safety Manager/Supervisor(s) and qualified safety staff as described in the CSAR. Safety staff shall be present at the WORK Site at all times while CONTRACTOR Personnel are working, including nights, weekends, holidays and extended working hours, as described in the CSAR. CONTRACTOR safety staff shall not be assigned dual roles (e.g., not also be work permit receivers, scaffold inspectors, etc).

1. WORK PERMITS

Work Permits shall be obtained by CONTRACTOR in accordance with SAUDI ARAMCO GI 2.100, Work Permit System, and Chapter I-4, Work Permit System, of the SAUDI ARAMCO Construction Safety Manual (CSM) prior to beginning WORK.

1. PERSONAL PROTECTIVE EQUIPMENT (PPE)

CONTRACTOR shall, as a minimum, provide, maintain and enforce use of the personal protective equipment (PPE) described in Chapter I-3, Personal Protective Equipment, of the CSM. Minimum PPE in SAUDI ARAMCO Restricted Areas and project WORK Sites includes hard hats, safety glasses and safety shoes for all workers. CONTRACTOR shall also comply with all PPE requirements stipulated by the local SAUDI ARAMCO facility or the Company Representative (e.g., Flame Resistant Clothing).

1. SAUDI ARAMCO PLANT OPERATIONS

CONTRACTOR shall ensure that CONTRACTOR Personnel do not open or close any valves, or operate any electrical switches or any other SAUDI ARAMCO equipment in SAUDI ARAMCO plant facilities.

1. TRANSPORTATION

CONTRACTOR shall ensure CONTRACTOR Personnel comply with all Saudi Arab Government and SAUDI ARAMCO traffic safety rules, laws and regulations, including GI 6.030, Traffic and Vehicle Safety, paying particular attention to the Vehicle Condition and Driver Responsibilities listed in Supplement-I of GI 6.030.

CONTRACTOR shall ensure that passengers travel only in vehicles that are provided with passenger seats. Seat belts shall be installed for all seats and used in all vehicles carrying personnel as described in the SAUDI ARAMCO Contractor Safety Administrative Requirements (CSAR).

1. REMOVAL FROM SITE

SAUDI ARAMCO reserves the right to require removal of any CONTRACTOR Personnel or other personnel from the WORK Site if it is believed, in SAUDI ARAMCO’s reasonable discretion, that such person is a danger to himself or others. Costs incurred by CONTRACTOR as a result of such removal shall be solely CONTRACTOR’s responsibility, and any resultant CONTRACTOR performance delays shall not be deemed excusable hereunder.

1. INJURY AND DAMAGE REPORTING

CONTRACTOR shall comply with the incident reporting requirements of SAUDI ARAMCO GI 6.007, Reporting of Contractor On-Job Injuries/Occupational Illnesses, which includes an immediate written report of all on-job injuries or occupational illnesses regardless of severity.

CONTRACTOR shall ensure that an immediate oral report and preliminary written report is made to the Company Representative in the case of any incident with:

* Damage over SR10,000 to CONTRACTOR's plant or equipment,
* Damage, in any amount, to SAUDI ARAMCO equipment or property,
* Damage and all incidents involving cranes and heavy equipment, or
* Fire, explosion or hazardous materials release.

For an incident resulting in CONTRACTOR Personnel fatality, serious injury to CONTRACTOR Personnel or damage to SAUDI ARAMCO equipment or property, the CONTRACTOR shall conduct an incident investigation, including a structural root cause analysis. CONTRACTOR shall submit a copy of the draft incident investigation report and the final report to the Company Representative for review in a timely manner. In addition, SAUDI ARAMCO reserves the right to convene an investigation committee in accordance with GI 6.003, Incident Investigation.

CONTRACTOR shall maintain a current record showing all:

* WORK injuries/illnesses/fatalities
* Motor vehicle collisions
* Incidents to CONTRACTOR's plant or equipment over SR10,000
* Incidents involving damage to SAUDI ARAMCO equipment and property
* Damage and all incidents involving cranes and heavy equipment
* Fires, explosions, toxic releases.
* Near miss incidents

CONTRACTOR shall submit to the Company Representative electronic and hardcopy copies of this record as required by GI 6.007, Chapter I-2, Incident Reporting and Investigation, of the SAUDI ARAMCO Construction Safety Manual (CSM) and as requested by the Company Representative.

1. FIRE PREVENTION

CONTRACTOR shall provide and maintain in good working order suitable firefighting equipment and shall provide trained and qualified fire watch personnel for all WORK activities involving ignition sources, as per the provisions of Chapter I-7, Fire Prevention, of the CSM.

1. MEDICAL

CONTRACTOR shall comply with all medical requirements described in the SAUDI ARAMCO Contractor Safety Administrative Requirements (CSAR) and the SAUDI ARAMCO Minimum Medical Standards Requirements (MMSR) Manual.

1. CONTRACTOR CAMPS

Prior to beginning construction of any new contractor camp or other worker accommodation, or prior to occupancy of existing contractor camps or other worker accommodations, CONTRACTOR shall provide all necessary assistance to Company Representative to allow Company Representative and all SAUDI ARAMCO organizations identified to fulfill their obligations pursuant to G.I. 298.010, including but not limited to timely provision of required documentation, certifications, and access to contractor camps.

CONTRACTOR shall ensure that any CONTRACTOR camp facility provided for CONTRACTOR Personnel and/or SAUDI ARAMCO personnel meets the requirements of Saudi Arabia's Labor Law and the SH&E Requirements. CONTRACTOR shall operate the camp facility in accordance with G.I. 298.010, Attachment V, Procedure for Management of Safety and Hygiene at Contractor Camps and Project Support Buildings.

Prior to occupancy and permanent connection of utilities, CONTRACTOR's camp facilities either on or off SAUDI ARAMCO property shall be subject to inspection by the Company Representative and/or the Company Representative’s delegate(s), for compliance with all applicable safety, fire and health standards. Any deficient items noted during the inspection or otherwise brought to the attention of CONTRACTOR shall be promptly and satisfactorily resolved prior to occupancy.

SAUDI ARAMCO reserves the right to periodically re-inspect any camp facility located either on or off SAUDI ARAMCO property to check that all SH&E Requirements are being complied with.

If SAUDI ARAMCO considers that non-conformance with SH&E Requirements on a CONTRACTOR camp are so extensive or significant as to be deemed to be hazardous to the health of personnel residing there, then the CONTRACTOR shall, within thirty (30) days of receipt of notice and at no cost to SAUDI ARAMCO, close all or the identified portion of the camp and take all necessary action to relocate personnel to a SAUDI ARAMCO specified Contractor Park or other suitable and compliant alternate accommodations. Re-occupation of the camp will not be allowed until such time as the specified conditions have been rectified to the satisfaction of SAUDI ARAMCO and the camp facility meets the requirements specified herein. SAUDI ARAMCO reserves the right to require the camp to be vacated and personnel relocated on less than thirty (30) days’ notice if the conditions pose a significant environmental, safety or health risk.

1. WORK OVER OR ADJACENT TO WATER

CONTRACTOR shall provide an adequate amount of approved lifesaving and rescue equipment on every seagoing vessel, and at every WORK Site where WORK is being carried out over or adjacent to water.  CONTRACTOR Personnel exposed to drowning hazards shall obtain, prior to assignment to such WORK, and maintain a valid water survival certification, and continuously use approved, wearable personal flotation devices appropriate for the application as prescribed in SAUDI ARAMCO G.I. 6.020.

END OF SECTION I

SECTION II - ENVIRONMENTAL AND SANITARY REQUIREMENTS:

1. INTRODUCTION

This section covers various environmental and sanitary requirements with which CONTRACTOR must comply. This may include handling, treatment and disposal of liquid and solid wastes, air quality, marine protection, biodiversity and conservation, waste water treatment and resource conservation during execution of SAUDI ARAMCO construction projects, both onshore and offshore. This applies to construction sites, CONTRACTOR camps and accommodation located on or off of SAUDI ARAMCO controlled land, and any other work related activities, facilities, plants, utilities (permanent and temporary) that may result in an environmental impact during performance of the WORK.

1. APPLICABLE SAUDI ARAMCO AND/OR OTHER ENGINEERING REQUIREMENTS

2.1 All SAUDI ARAMCO and/or other engineering requirements referred to herein shall be the current issue, which will be furnished to CONTRACTOR by the Company Representative upon request. Company Representative will assist CONTRACTOR obtain other (non-SAUDI ARAMCO) engineering documents.

2.2 If current SAUDI ARAMCO and/or other engineering requirements do not cover a specific situation, CONTRACTOR shall contact the Company Representative for guidance and resolution.

2.3 When specific circumstances render a particular requirement of the SAUDI ARAMCO Standard, Procedure, General Instruction or Code impractical, a waiver or grant of variance may be requested in writing from the SAUDI ARAMCO Environmental Protection Department in accordance with SAUDI ARAMCO Engineering Procedure 302, Instructions for Obtaining a Waiver of a Mandatory Saudi Aramco Engineering Requirement.

1. ENVIRONMENTAL MANAGEMENT PLAN

3.1 CONTRACTOR shall prepare and submit to the Company Representative an Environmental Management Plan (EMP) for approval within fifteen (15) working days of Contract execution. The EMP shall encompass the requirements specified in Paragraphs 4 through 11 of this Section and shall comply with the recommendations contained in any applicable Project Environmental Impact Assessment (EIA) as per SAEP-13 requirements.

3.2 EMP’s shall also address waste reuse, recycling, and resource recovery. All EMP’s shall address and include planned and implemented waste minimization measures.

3.3 CONTRACTOR shall implement the approved EMP and shall appoint a qualified Environmental Coordinator to oversee its implementation.

3.4 Upon approval of the EMP, CONTRACTOR shall submit a copy of the approved EMP together with the name, address and qualifications of the Environmental Coordinator shall be submitted to the SAUDI ARAMCO Environmental Protection Department (EPD).

3.5 A copy of the approved EMP together with all records generated by its implementation shall be retained at the WORK Site and be available for inspection by the Company Representative and any representative of EPD.

1. WATER SUPPLY PROTECTION

CONTRACTOR shall provide and maintain an adequate and safe supply of potable water for human consumption at all sites where CONTRACTOR Personnel are employed or housed. The water supply shall meet the design criteria specified by SAES-S-040, SAUDI ARAMCO Water Systems, and shall comply with the provisions of the SAUDI ARAMCO Environmental Health Code (notably SAEHC-S-01, Water) and SAUDI ARAMCO Water Conservation Policy, INT-11.

1. WASTEWATER MANAGEMENT

5.1 The basic design of all wastewater treatment units and disposal of sanitary/industrial wastewater shall comply with the following: SAUDI ARAMCO Engineering Standards SAES-A-103, Discharges to the Marine Environment; SAES-A-104, Wastewater Treatment, Reuse and Disposal; SAEHC-S-02, Sanitary Wastewater and Sewerage Systems; SAES-S-010, Sanitary Sewers; the Presidency of Meteorology and Environment General Environmental Regulations; and, when applicable, the Royal Commission Environmental Regulations, the Regional Organization for the Protection of the Marine Environment (ROPME) “Protocol Concerning Marine Pollution Resulting from Exploration and Exploitation of the Continental Shelf, 1989”, and the International Conference for the Prevention of Pollution at Sea by Ships (MARPOL).

5.2 All inland sanitary wastewater discharge shall meet Ministry of Water & Electricity (MOWE) standards. Trucking wastewater to off-site disposal is not permitted for all facilities occupied by more than 30 persons. Onsite wastewater disposal systems (e.g., septic systems, ponds) shall comply with SAES-A-104, Wastewater Treatment, Reuse and Disposal.

5.3 The trucking of sanitary wastewater from the point of generation to appropriate sewage treatment plants shall be manifested in accordance with SAUDI ARAMCO Hazardous Waste Code, Section 6.

5.4 Municipal dumping areas shall not be used for disposal of wastewater. CONTRACTORS wishing to utilize off-site disposal for wastewater shall obtain approval from the General Supervisor, Environmental Engineering Division (EED) of the SAUDI ARAMCO EPD and the Ministry of Municipal and Rural Affairs (MOMRA) to be allowed to transport sanitary wastewater to an off-site wastewater treatment facility.

5.5 Hydrocarbon contaminated fluids drainage systems shall be designed in accordance with SAES-D-116, Underground Storage Tank System, SAES-A-400, Industrial Drainage Systems, SAES-A-401, Closed Drain Systems (CDS), SAES-A-403, Offshore Platform Drainage Systems, SAES-S-010, Sanitary Sewers, and SAES-S-020, Oily Water Drainage Systems.

5.6 Hydrotesting shall follow the requirements of SAES-A-007, Hydrostatic Testing Fluids and Lay-Up Procedures. Disposal of Wastewater from Disposal of Wastewater from Cleaning, Flushing and Dewatering Pipelines and Vessels shall be in accordance with SAEP-327.

1. SPILL CONTROL

6.1 In the event of an offshore oil spill, the procedures outlined in GI 2.400, Offshore Oil Spill Contingency Plan, shall be followed. In the event of an inland oil spill, the procedures of GI 2.401, Inland Oil Spill Response, shall be followed.

6.2 CONTRACTOR shall take immediate action to stop a spill and promptly notify the appropriate parties as per GI 2.104, Leak and Spill Reporting.

6.3 In the event of a chemical/oil spill, CONTRACTOR shall promptly notify the Company Representative to determine whether a “reportable quantity” exists, per SAUDI ARAMCO Hazardous Waste Code, Section 12.

6.4 Any soil that is contaminated due to a spill shall be disposed in accordance with SAUDI ARAMCO Hazardous Waste Code, Section 6, and SAEHC Solid Waste Management, Section S-03, and SAES-S-007 Solid Waste Landfill Requirements. Shipments of hazardous waste shall be manifested as required by SAUDI ARAMCO Hazardous Waste Code, Section 6. Only SAUDI ARAMCO-approved waste management contractors shall be used to dispose of hazardous waste.

1. SOLID WASTE MANAGEMENT

7.1 Waste Disposal Plan

7.1.1 The solid waste portion of CONTRACTOR's EMP shall include provisions for waste minimization, waste recovery, temporary site storage, collection, transportation and disposal practices.

7.1.2 CONTRACTOR’s EMP must comply with the SAUDI ARAMCO Hazardous Waste Code, the SAUDI ARAMCO Environmental Health Code (notably SAEHC-S-03, Solid Waste Management), and SAES-S-007, Solid Waste Landfill Requirements.

7.1.3 The specifics of the designated waste treatment facility and / or SAUDI ARAMCO approved disposal landfill for the WORK must be contained within the Waste Disposal Plan portion of the EMP. CONTRACTOR must prepare, maintain and retain waste records detailing the classification, quantities of waste generated, the waste generator, details of the waste transporter and the final disposal / treatment facility.

7.2 Hazardous Waste Storage and Handling

7.2.1 CONTRACTOR shall, when applicable, comply with the following SAUDI ARAMCO General Instructions, Supply Chain Manual references and engineering standards for its operations involving hazardous waste storage and handling: GI 430.001, Implementing the SAUDI ARAMCO Hazardous Waste Code; GI 150.001, Asbestos Hazard Management; SAES-S-007, Solid Waste Landfill Requirements, CU-22.03, Processing and Handling of Hazardous Material; GI 2.717, Procedures and Guidelines for Handling Polychlorinated Biphenyls (PCBs); CU-22.06, Disposal of Polychlorinated Biphenyl (PCB); CU-22.01, Processing and Handling of Gas and Gas Cylinders.

7.2.2 CONTRACTOR’s EMP (see Paragraph 3 above of this Section II) shall address in detail the design, construction and method of operation for hazardous waste storage, handling equipment and facilities.

7.2.3 All hazardous waste shall be stored in tightly closed, leak proof containers made of or lined with materials that are compatible with the hazardous waste to be stored. Containers shall be marked with warning labels to accurately describe their contents and detail appropriate safety precautions.

7.2.4 Incompatible wastes are not permitted to be stored within the same spill containment area or in such a manner that the contents could be mixed if spilled.

7.2.5 Hazardous chemicals shall be stored and handled in accordance with SAUDI ARAMCO Chemical Hazard Bulletins (CHBs), which are issued by the Environmental Protection Department, the manufacturer’s Material Safety Data Sheet (MSDS) or as required by the Company Representative.

7.2.6 CONTRACTOR shall have readily available all relevant CHBs/MSDSs at chemical storage areas and locations where chemicals are being used.

7.3 Method of Collection

7.3.1 Solid wastes shall be transported by CONTRACTOR to disposal areas in vehicles equipped to minimize windblown debris.

7.3.2 CONTRACTOR shall promptly clean up all spillages and waste lost from the vehicle on route to the disposal site.

7.3.3 Hazardous waste containers shall be collected and transported by CONTRACTOR in a manner which minimizes environmental, fire and explosion hazards and worker exposure. Transportation vehicles shall be properly marked and drivers shall carry the appropriate documents describing the quantity, classification and associated degree of hazard for the waste transported.

7.3.4 All vehicles and containers shall be designed to prevent the release of transported liquid and solid wastes.

7.3.5 Drivers shall have specialized training related to the handling and disposal of their cargo and carry on board the relevant CHBs/MSDSs. Each vehicle must carry appropriate safety and fire prevention equipment and a telephone number to contact in an emergency.

7.4 Requirements for Establishing a Landfill Disposal Site

CONTRACTOR may apply to operate its own solid waste management system or to utilize a central waste management system. Written approval from the SAUDI ARAMCO Environmental Protection Department is required prior to establishing or operating a landfill disposal site on SAUDI ARAMCO controlled land and CONTRACTOR shall obtain through the Company Representative a SAUDI ARAMCO Land Use Permit (LUP). Landfill design requirements shall be in accordance with SAES-S-007, Solid Waste Landfill Requirements, and the SAUDI ARAMCO Environmental Health Code (notably SAEHC-S-03, Solid Waste Management).

7.5 Classification of Landfill Disposal Sites

7.5.1 If CONTRACTOR operates its own, or uses an existing solid waste disposal site, CONTRACTOR shall dispose of waste in an area that will adequately contain it. The following describes three landfill types and the material that may be disposed of in each:

7.5.1.1 Class I Landfill Disposal Site - isolates solid wastes from surface water and groundwater. The site shall have a stable foundation and two impermeable liners with leachate collection and removal systems. Precipitation runoff from surrounding areas shall be diverted away from the site. A Class I landfill disposal site shall be used for the disposal of Class I hazardous wastes and may be used for the disposal of Class II biodegradable and chemically decomposable wastes and Class III inert wastes. Class I landfills shall only be operated by qualified environmental contractors that are licensed by the Presidency of Meteorology and Environment (PME).

7.5.1.2 Class II Landfill Disposal Site - shall be above the highest groundwater elevation to prevent direct contact of the wastes with surface water or groundwater. The landfill site shall have a stable foundation and provisions shall be made for diversion of runoff. A Class II landfill disposal site shall be used for Class II wastes and may be used for Class III wastes.

7.5.1.3 Class III Landfill Disposal Site - provides little or no protection from underlying groundwater. Surface water adjacent to the disposal site may contact the waste material. A Class III disposal site is for the disposal of Class III inert waste only.

7.5.2 Waste classification will be according to the following:

Class I Hazardous Waste - Wastes which constitute a high degree of hazard to the public health and the environment. These include materials which are flammable, corrosive, reactive, toxic, radioactive, infectious, carcinogenic, mutagenic or teratogenic. Wastes listed as hazardous waste in PME’s Rules for Implementation and in the SAUDI ARAMCO Hazardous Waste Code, shall be considered Class I waste.

Class II Biodegradable or Chemically Decomposable Waste - Non-hazardous solid wastes and sludges which are biologically or chemically decomposable in the natural environment. Examples include paper, digested and dried sewage sludge, animal wastes, garbage and other putrescible wastes and wood.

Class III Inert Wastes - Wastes which are not biologically or chemically active in the natural environment. Examples include glass, most plastics, rubber products and construction debris.

7.6 Solid Waste Disposal, Site Design and Operations

Solid waste landfills shall be designed and operated in accordance with SAES-S-007, Solid Waste Landfill Requirements, and the SAUDI ARAMCO Environmental Health Code (notably SAEHC-S-03, Solid Waste Management).

CONTRACTOR shall incorporate the following into the solid waste portion of its EMP as minimum requirements which must be followed during disposal operations:

7.6.1 Discharge of Municipal / Construction and Demolition (C&D) Waste and unloading of solid waste shall be confined to the smallest area within which equipment can safely and efficiently operate.

7.6.2 CONTRACTOR may dispose of waste to SAUDI ARAMCO landfills that comply with SAES-S-007, private landfills that have government permits to operate, and government landfills. All landfill sites shall be provided with a perimeter fence with locking gates regardless of the site owner. Solid waste may not be co-disposed with liquid wastes. Open burning, illegal uncontrolled dumping and burial of waste is prohibited. The unauthorized disposal of material is prohibited. This includes overboard dumping of construction debris or refuse from offshore construction activities.

7.6.3 The Company Representative will advise on problematic waste, as required, and provide disposal instructions.

7.6.4 Incompatible Wastes - Incompatible wastes shall not be placed in common cells, tanks or containment areas. Exceptions to this include the intentional combination of certain hazardous wastes to achieve neutralization and detoxification by qualified waste management personnel.

7.6.5 Sludge Disposal - Dried sludge from domestic wastewater treatment plants shall be disposed in a Class II waste disposal site. The sludge shall be placed over the working face (the area of a landfill in which waste is currently being deposited) and shall be mixed in an appropriate ratio with dry waste to absorb moisture.

7.6.6 Environmental/Water Pollution - Landfill operations shall not cause or allow discharge of contaminants into the environment or adversely impact surface or groundwater systems.

7.6.7 Waste containing free liquid (i.e., waste that fails the United States Environmental Protection Agency’s SW-846 Method 9095A: Paint Filter Liquids Test) shall not be disposed of in landfills.

7.6.8 All shipments of hazardous waste shall be manifested in accordance with the SAUDI ARAMCO Hazardous Waste Code.

7.7 Offshore Disposal

7.7.1 Offshore disposal of solid and hazardous waste shall not be allowed. All such waste shall be brought onshore for proper disposal.

7.7.2 Liquid waste treatment and disposal shall be in accordance with ROPME and MARPOL requirements.

7.7.3 Sanitary and industrial wastewater treatment and handling shall be per Paragraph 5, Wastewater Management, of Section II of Schedule “D”.

7.7.4 Disposal of drilling mud and cuttings shall be in accordance with the ROPME, “Protocol Concerning Marine Pollution Resulting from Exploration and Exploitation of the Continental Shelf, 1989”.

1. AIR POLLUTION MITIGATION

8.1 CONTRACTOR shall comply with SAES-A-102, Ambient Air Quality and Source Emission Standards.

8.2 All vehicles shall be properly maintained to minimize excessive exhaust emissions and shall comply with the Standardization & Metrology Organization for Gulf Cooperation Council (GCC) Countries Standards:

* GCC Standard # 47 "Motor Vehicles - Allowable Limits of Gaseous Pollutants Emitted to the Atmosphere from Gasoline Engine Vehicles".
* GCC Standard # 144 "Motor Vehicles - Allowable Limits of Pollutants Emitted to the Atmosphere from Heavy Duty Diesel Engine Vehicles".
* GCC Standard # 145 "Motor Vehicles - Method for Testing for Pollutants Emitted from Heavy Duty Diesel Engine Vehicles - Part 1: Determination of Exhaust Gaseous Pollutants".

8.3 Dust control shall be accomplished by properly wetting the WORK area prior to commencing the WORK and/or other approved measures, such as dust suppression/sand control chemicals that are applied to soils to bind them for the engineered life of the project. Dust suppression and control chemicals replace the need for daily watering of the site.

1. NOISE CONTROL

Control of noise shall be accomplished in accordance with SAES-A-105 Noise Control. For construction related noise, CONTRACTOR shall use appropriate abatement and mitigation control measures.

1. FOOD SERVICE HYGIENE

CONTRACTOR food service shall comply with the SAUDI ARAMCO Environmental Health Code (notably SAEHC-S-04, Food Establishments.)

1. CAMP SANITATION

CONTRACTOR camp sanitation shall comply with the SAUDI ARAMCO Environmental Health Code (notably SAEHC-S-07, Camps and Communal Living Facilities).

END OF SECTION II

END OF SCHEDULE D