

P-14 Spill Prevention and Emergency Response Plan

Aim and Objective					
<p>The purpose of P-14 Spill Prevention and Emergency Response Plan (SPERP) is two-fold:</p> <ul style="list-style-type: none"> To provide a proactive hazard identification system to prevent, or lower the likelihood, of spill events, to guide the establishment of prevention measures and response process and responsibilities for managing these situations, and to detail emergency spill response procedures. The SPERP sets out the requirements for management of unplanned spills of dangerous or hazardous materials during construction, such as spillages of hydrocarbons (including diesel, petrol, greases, oils and other lubricants); drilling chemicals; hazardous chemicals; and wastewater, including sewage and sludge. To set out the Emergency Response procedures to be followed in the serious incidents, accidents, natural disasters, or related emergencies during construction. 					
Summary of Impacts and Risks					
<p>If incorrectly used, stored or managed, hazardous materials have the potential to leak, catch fire, leach into water and soil, and generate odour resulting in harm to workers, the community, and/or pollution of the environment. Emergencies that may occur during construction such as fires and explosions, pandemic/widespread health emergency, natural disasters such as earthquakes, and severe weather events such as typhoons may result in injury, loss of life, or environmental impacts.</p>					
Mitigation and Management Actions					
#	Issue or Risk	Action	Timing / Frequency	Responsibility	
P-14-1.	Storage of hazardous and non-hazardous materials.	<ul style="list-style-type: none"> The storage of non-hazardous materials will be in accordance with P-12 Waste Management Point Source Pollution Plan. The storage of hazardous materials will be in accordance with P-13 Hazardous Material Management Plan. 	Throughout construction	HEC Construction Manager HEC Camp Manager HEC HSE Manager	
P-14-2.	Accidental release of hazardous materials to the environment (spills to land, water, and air)	<ul style="list-style-type: none"> The intentional discharge of hazardous materials or contaminated water into the environment is prohibited. If there is an accidental release or spill of hazardous material, the procedures detailed in Annex P-14-I Spill Prevention and Response Procedures will be followed. 	Throughout construction	HEC Construction Manager HEC Camp Manager HEC HSE Manager	
P-14-3.	Accidental release of sewage and other wastewater to the environment	<ul style="list-style-type: none"> Management of wastewater, sludge, cement and concrete wash water will be undertaken in accordance with P-12 Waste Management Point Source Pollution Plan. If there is an accidental release the procedures detailed in Annex P-14-I Spill Prevention and Response Procedures will be followed. 	Throughout construction	HEC Construction Manager HEC HSE Manager	
P-14-4.	Emergency situations arising from or affecting Project construction activities, workforce and/or downstream communities	<ul style="list-style-type: none"> During a life-threatening emergency, the HSE Manager will be the on-scene commander, supported by the E&S Supervisor and the H&S Supervisor. Site specific procedures for emergency response will be in accordance Annex P-14-II Site Specific Emergency Response Procedures. A site plan showing emergency assembly locations, medical facilities, shelters and evacuation routes will be prepared and maintained up to date by HEC and issued to HEC's Emergency Response Teams and local communities. Refer Annex P-14-III Emergency Evacuation Routes. The response to natural disasters will be undertaken in accordance with Annex P-14-III Emergency Response Plan (Natural Disasters). In the event of a dam failure during construction the procedures detailed in Annex P-14-V Site Management Plan Against Flooding During Construction will be followed. 	Throughout construction	HEC Construction Manager HEC HSE Manager HEC E&S Supervisor HEC H&S Supervisor	
Monitoring Requirements					
#	Title	Description	Target / Performance Indicator	Timing / Frequency	Responsibility
P-14-A.	Accidental release of materials to the environment	<ul style="list-style-type: none"> Ensure that any accidental spills and release of hazardous material are recorded, clean-up/remediation is undertaken to minimise impacts to the receiving environment (including land, water, and air) Environmental Health and Safety incidents, actual or potential non-compliances shall be recorded through the Health and Safety Register, Grievances Redress Mechanism and Non-Compliance Reporting process as appropriate. Refer P-1 CESMP for more details. 	<p>No significant spills of hazardous materials</p> <p>No EHS incidents, grievances, FOR B, C or NCRs raised in relation to spills</p>	Weekly inspections hazardous material storage areas Reported in HEC quarterly E&S reports	HEC HSE Manger
P-14-B.	Emergency situations arising from or affecting Project construction activities, workforce and/or communities	<ul style="list-style-type: none"> Emergency response procedures are reviewed and updated regularly (including identified hazards, management actions, evacuation routes and contact details) Emergency drills will be practiced, involving workers and the community. Ensure effective response to emergencies caused either by project activities or non-project events and natural disasters. 	<p>6 monthly reviews</p> <p>6 monthly drills for workers; 12 monthly drills for community</p> <p>No serious injuries or loss of life arising from emergency situations</p>	Throughout construction Reported in HEC quarterly E&S reports	HEC HSE Manger HEC construction Manager
P-14-C.	Training records	<ul style="list-style-type: none"> Complete induction training and annual refreshers for all site workers, including "Emergency Response" and "Emergency Evacuation" training (as per P-1 CESMP). 	Training completed for all workers	As part of site induction and annual refreshers Reported in HEC quarterly E&S reports	HSE Training Supervisor
Supporting Documents					
Annex	Name	Description			
P-14-I.	Spill Prevention and Response Procedures	Actions to be undertaken in the event of a Chemical / Fuel Spillage or leak.			
P-14-II.	Site Specific Emergency Response Procedures	Flip book of emergency response procedures written for workers.			

P-14-III.	Emergency Assembly Routes	Emergency evacuation routes and assembly points
P-14-IV.	Emergency Response Plan (Natural Disasters)	Guidance and procedures covering flooding, cyclone, tsunami, wildfire and earthquake.
P-14-V.	Site Management Plan Against Flooding During Construction (E-GE-PMGD-R0-09100-C)	Contains two parts: Part 1 technical review and establishment of early warning system and Part 2 emergency response plan.
P-14-VI.	Dam Safety Emergency Preparedness Plan (Draft)	Dam Safety Plan (DSP) Emergency Preparedness Plan (Emergency Action Plan) Draft dated 15 December 2021. Emergency Preparedness Plan for dam operations, including emergency response procedures, dam break inundation mapping and consequence assessment. This plan will be updated no later than 12 months before the first reservoir impoundment.

ANNEX P-14-I SPILL PREVENTION AND RESPONSE PROCEDURES

ANNEX P-14-II SITE SPECIFIC EMERGENCY RESPONSE PROCEDURES

ANNEX P-14-111 EMERGENCY ASSEMBLY ROUTES

