Changes “Other Than Inconsequential” Require These Additional Reviews:
Radiological Controls
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USQ # GCX-2

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NOTE - This procedure applies to WRPS personnel and subcontractors who are in the field (outdoors; not in mobile offices or other permanent structures) performing tank farm related activities within the boundaries and vicinities of the Tank Farms controlled by WRPS.

- This procedure is for in-field use by personnel at affected facility only. Individual sections in this procedure are performed as required by existing specific emergency conditions.

1.0 INITIATING CONDITIONS

The following conditions are examples that could necessitate field workers to perform response actions.

- Condition 1 - A Request for Emergency Assistance (pg. 4)
- Condition 2 - An Unsafe Condition - Personnel Hazard (pg. 5)
- Condition 3 - A Medical Emergency (pg. 7)
- Condition 4 - A Fire (pg. 8)
- Condition 5 - Take Cover (pg. 9)
- Condition 6 - Evacuation (pg. 10)
- Condition 7 - A Radiation Alarm (pg. 11)
- Condition 8 - Discovery of a Suspicious Object/Bomb (pg. 12)
- Condition 9 - A Seismic Event (pg. 13)
- Condition 10 - A Waste Tank Fire/Explosion. (pg. 14)
2.0 ACTIONS

2.1 Initial Actions

Condition 1 - Request Emergency Assistance

2.1.1 IF emergency assistance is needed, DETERMINE available communication resources AND

TAKE action as described in the following table:

<table>
<thead>
<tr>
<th>Available Resource</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>CONTACT Hanford Fire Department (HFD) at 911 or 373-0911 (Cell Phone) THEN CONTACT Central Shift Office as soon as possible at 373-2689.</td>
</tr>
<tr>
<td>Radio</td>
<td>CONTACT Central Shift Office on Station 22 OR CONTACT Patrol Operations Center using orange button feature on radio.</td>
</tr>
<tr>
<td>Fire Alarm</td>
<td>ACTIVATE fire alarm THEN CONTACT Central Shift Office as soon as possible at 373-2689 or Station 22. IF fire alarm is activated for non-fire condition, CONTACT the POC and HFD as soon as possible at 911 or 373-0911 (Cell Phone) AND REQUEST they acknowledge the fire alarm was activated for a non-fire emergency.</td>
</tr>
<tr>
<td>None</td>
<td>CONTACT any nearby personnel for assistance. GO TO closest occupied facility or building YELL for help.</td>
</tr>
</tbody>
</table>

Follow-Up Actions

2.1.2 GO TO Step 2.2.3 on page 16.
2.1 Initial Actions (Cont.)

Condition 2 - Unsafe Condition - Personnel Hazard

2.1.3 STOP work AND MOVE to a safe location a minimum of 100 meters (~330 feet) upwind.

2.1.4 WARN personnel within affected area of unsafe condition.

2.1.5 FROM a safe distance, ISOLATE affected area to prevent personnel access to the area.

2.1.6 IF emergency assistance is needed call 911 (373-0911 for cell phone).

2.1.7 NOTIFY Central Shift Office, (373-2689 or Station 22).

2.1.7.1 IF not already performed and emergency assistance is needed, REQUEST Central Shift Office initiate action to call 911 (373-0911 for cell phone) to request appropriate assistance.

2.1.7.2 IF unsafe condition involves chemicals, REQUEST IH&S assistance.

2.1.8 IF personnel have come into contact with chemical hazards or radiological hazard:

2.1.8.1 IF exposed to chemical hazard causing adverse reaction, IMMEDIATELY REMOVE contaminated clothing.

2.1.8.2 ENSURE affected personnel are directed to nearest safety shower, eye wash station, or decontamination facility.

2.1.8.3 FLUSH AND DECONTAMINATE personnel as appropriate for the chemical hazards or tank waste they have come into contact with.

2.1.8.4 IF exposed to chemical hazard causing adverse reaction, REQUEST emergency medical assistance at 911 (373-0911 for cell phone).

2.1.8.5 NOTIFY Central Shift Office, (373-2689 or Station 22).
2.1 Initial Actions (Cont.
Condition 2 - Unsafe Condition - Personnel Hazard (Cont.)

2.1.9 MAINTAIN control of affected area until relieved by response personnel.

Follow-Up Actions

2.1.10 GO TO Step 2.2.3 on page 16.
2.1 Initial Actions (Cont.)

Condition 3 - Medical Emergency

2.1.11 REQUEST assistance:
- HFD at 911 (373-0911 for cell phone).
- Central Shift Office, (373-2689 or Station 22).

WARNING
Movement of injured personnel by someone who is not medically trained can result in increased injuries. Unless conditions are life threatening, victim should not be moved.

2.1.12 IF injured personnel are discovered, DO NOT move injured personnel unless it is life threatening, or you are a trained medical responder.

2.1.13 IF personnel are available DISPATCH a flagger to guide medical responders to victim.

2.1.14 OBTAIN injury information from victim AND
IF trained, PROVIDE first aid.

WARNING
Contact with blood or bodily fluids can result in transfer of pathogens which can cause illness or death.

2.1.15 IF contact with blood or bodily fluids occurs while performing first aid:

2.1.15.1 WASH affected body area with strong disinfectant soap as soon as possible.

2.1.15.2 REPORT contact to manager.

2.1.15.3 OBTAIN medical evaluation.

Follow-Up Actions

2.1.16 GO TO Step 2.2.1 on page 16.
2.1 Initial Actions (Cont.)

Condition 4 - Fire

2.1.17 **STOP** work activities AND

**WARN** personnel of fire.

2.1.18 **DIRECT** personnel to re-locate to a safe location, a minimum of 100 meters (~330 feet) upwind from fire.

2.1.19 **ACTIVATE** nearest fire alarm.

2.1.20 **REQUEST** HFD assistance at 911 (373-0911 for cell phone).

2.1.21 **NOTIFY** Central Shift Office, (373-2689 or Station 22).

2.1.22 **IF** personnel are available **DISPATCH** a flagger to guide and brief HFD.

2.1.23 **IF** directed by CSM, **PERFORM** personnel negative accountability of the event area.

2.1.24 **WHEN** HFD arrives, **REPORT** best known status of personnel.

**Follow-Up Actions**

2.1.25 **GO TO** Step 2.2.3 on page 16.
2.1 Initial Actions (Cont.)

Condition 5 - Take Cover

2.1.26 STOP AND PLACE work activity in a safe configuration

2.1.27 LOCATE nearest change trailer:

2.1.28 DETERMINE status of personnel, (i.e., work groups/personnel) AND ENSURE all personnel have exited farm.

2.1.29 CLOSE change trailer doors.

2.1.29.1 SHUT DOWN HVAC system using panel breakers in change trailer.

2.1.29.2 PLACE personnel at exit/entry points.

2.1.29.3 ENSURE no eating, drinking, or smoking until confirmed otherwise by (Incident Commander) IC/BED.

2.1.30 ENSURE contaminated personnel are segregated from non-contaminated personnel.

2.1.31 DIRECT non-Tank Farm personnel to contact their manager.

2.1.32 STAND BY to be contacted by Central Shift Office.

2.1.33 IF not contacted within 20 minutes, NOTIFY Central Shift Office, (373-2689 or Station 22).

2.1.34 IF directed by CSM, PERFORM personnel negative accountability of the event area.

Follow-Up Actions

2.1.35 GO TO Step 2.2.3 on page 16.
2.1 Initial Actions (Cont.)

Condition 6 - Evacuation

NOTE - The following actions are based on the premise that evacuation is preceded by a Take Cover Siren.

2.1.36 INFORM personnel of pending evacuation.

2.1.37 PREPARE for evacuation:

2.1.37.1 GATHER personal belongings.

2.1.37.2 OBTAIN evacuation route from Central Shift Office (373-2689 or Station 22).

2.1.37.3 INFORM personnel of evacuation route AND WHEN directed by appropriate emergency response member, EVACUATE the facility.

2.1.38 IF non-Tank Farm personnel are present, ASSIST them to nearest Staging Area.

2.1.39 CONDUCT accountability of personnel at Staging Area AND REPORT status to Central Shift Office/BED (373-2689 or Station 22).

2.1.40 DIRECT all non-WRPS personnel to contact their manager.

Follow-Up Actions

2.1.41 GO TO Step 2.2.3 on page 16.
2.1 Initial Actions (Cont.)

Condition 7 - Radiation Alarm

2.1.42 IF Tank Farm Exhaust Stack Radiation Alarm actuates, PERFORM the following:

2.1.42.1 STOP work activities.

2.1.42.2 RELOCATE a minimum of 100 meters (~330 ft) upwind of the release point.
   a. MAINTAIN segregation of potentially contaminated workers from non-contaminated workers until all personnel are surveyed.
   b. IF HPT is present, PERFORM radiological surveys.

2.1.42.3 ISOLATE Tank Farm/area by warning others and preventing unauthorized entry.

2.1.42.4 CONTACT the Central Shift Manager
   a. IF HPT is not present, REQUEST HPT assistance.
   b. AWAIT further instructions.

2.1.43 STAND BY until HPT assistance arrives AND

IF conditions require re-locating, NOTIFY the Central Shift Office, (373-2689 or Station 22).

Follow-Up Actions

2.1.44 GO TO Step 2.2.2 on page 16.
2.1 Initial Actions (Cont.)

Condition 8 - Suspicious Object/Explosive Device

2.1.45 MOVE away from suspicious object or explosive device.

WARNING
Using two-way radios and/or cellular phones within 100 feet of suspicious object or explosive device may cause detonation.

2.1.46 DIRECT personnel to shut off two-way radios and cellular phones.
2.1.47 DO NOT attempt to touch or move suspicious object or explosive device.
2.1.48 EVACUATE all personnel to a safe location a minimum of 100 meters (~330 feet) upwind from suspicious object or explosive device.
2.1.49 ISOLATE area to prevent unauthorized entry.
2.1.50 REPORT suspicious object or explosive device to Hanford Patrol (911 or 373-0911 for cell phone) and Central Shift Office (373-2689 or Station 22).
2.1.51 IF personnel are available DISPATCH a flagger to meet Hanford Patrol AND

PROVIDE suspicious object/explosive device information.

Follow-Up Actions

2.1.52 GO TO Step 2.2.3 on page 16.
2.1 Initial Actions (Cont.)

Condition 9 - Seismic Event

2.1.53 IF inside building, TAKE COVER underneath stable objects or structures (Such as structural doorways, desks, tables, etc.)

2.1.54 IF outside building, MOVE to an open area away from tall objects (power lines) or hazardous areas/objects (exhaust stacks) as quickly as possible AND SIT down until ground acceleration is over.

2.1.55 IF personnel are injured or trapped, OBTAIN emergency assistance:

- HFD at 911 (373-0911 for cell phone)
- Central Shift Office, (373-2689 or Station 22).

2.1.56 MOVE away from any unsafe conditions AND IF other Tank Farm emergencies exist, RESPOND per appropriate Step(s) in applicable Section(s) in this procedure.

2.1.57 REPORT location and status to Central Shift Office, (373-2689 or Station 22) AND REQUEST assistance.

2.1.58 IF a waste tank confinement system is damaged or left unsecured, IMMEDIATELY NOTIFY's Central Shift Office, (373-2689 or Station 22).

2.1.59 IF possible, RE-LOCATE per the Central Shift Office’s direction.

Follow-Up Actions

2.1.60 GO TO Step 2.2.3 on page 16.
2.1 Initial Actions (Cont.)

Condition 10 - Waste Tank Fire/Explosion

2.1.61 IF any of the following conditions are observed and it is safe to do so, PERFORM Steps 2.1.61.1 through 2.1.61.5:

- Visual indication of smoke from a ventilation system exhaust stack, tank risers, or cover blocks
- Ground movement and muffled percussion sound (explosion).

2.1.61.1 ACTIVATE nearest fire alarm.

2.1.61.2 CALL 911 (373-0911 for cell phone).

2.1.61.3 NOTIFY Central Shift Office, (373-2689 or Station 22).

2.1.61.4 IF instructed by the Central Shift Office, STOP work activities AND SHUT DOWN affected operating equipment.

2.1.61.5 NOTIFY TMACS (373-2618).

2.1.62 IF wind direction allows access to change trailer, PERFORM the following:

2.1.62.1 PROCEED to change trailer.

2.1.62.2 EVACUATE Tank Farm a minimum of 100 meters (~ 330 feet) upwind, away from affected tank:

a. SEGREGATE contaminated and non-contaminated personnel.

b. DO NOT remove PPE’s.

c. CROSS over step-off pad.

d. CONTINUE with evacuation.
2.1 Initial Actions (Cont.)

Condition 10 - Waste Tank Fire/Explosion (Cont.)

2.1.63 IF wind direction is toward change trailer and alternate change trailer is not available, RE-LOCATE to furthest upwind location AND

IF exiting CA to other than change trailer, REMAIN in a segregated group until released by survey.

2.1.64 IF directed by CSM, PERFORM personnel negative accountability of the event area.

2.1.65 ENSURE all personnel have evacuated a minimum of 100 meters (~ 330 feet) upwind, away from affected tank.

2.1.66 KEEP personnel still in PPE’s segregated from others.

Follow-Up Actions

2.1.67 GO TO Step 2.2.3 on page 16.
2.2 Follow-Up Actions

2.2.1 REPORT injury information from victim to Hanford Fire Department personnel.

2.2.2 CONFIRM surveys are completed of suspect area or event location needing to be cleared.

2.2.3 FOLLOW instructions of Hanford Patrol/Hanford Fire Department/Staging Area Manager/IC/BED/CSM.

3.0 RECOVERY

3.1 Termination/Exit Criteria

The applicable Initial Actions of this procedure have been completed and emergency response personnel have assumed responsibility for taking mitigative actions.

3.2 Re-Entry and Recovery

NONE

4.0 RECORDS

No records are generated during the performance of this procedure.