



# Team Product Document

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Prepared By/Date P. H .Waite M. Spenard 12/6/2011		Dept. 117 N340	Mail/Addr T034 T-034	Date	
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Distribution			Abstract		
*	Name	Mail Addr.	This Procedure describes the maintenance and surveillance activities required for compliance with applicable federal, state and local regulations and company policies at the RMHF.		
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# Supporting Document

## Summary of Change

		Document No. <b>EID-06142</b>
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Rev.	Summary of Change	Approvals and Date
A	<p>Procedure revised due to removal of the Evaporator &amp; some components of the Radioactive Water System; minor editorial changes; updated Table 1 &amp; deleted Table 2 (Rad Survey Frequency Minimum Requirements).</p> <p>Updated by: Sharon Gevorgiz</p>	<p>R. Marshall R. Amar P. Rutherford P. Waite</p>
B	<p>Revised to reflect the following</p> <ul style="list-style-type: none"> <li>• Update facility description and add current safe shutdown status</li> <li>• Update HEPA system operational requirements to reflect elimination of the B/4022 system, and the as-needed-only status for the B/4021 system</li> <li>• Update alarm table to eliminate B/4022 HEPA system, transformer, and rainwater catch-tank alarms, and add fire sprinkler water flow alarms</li> <li>• Minor editorial changes</li> <li>• Eliminate B/4021 Alarm Trouble Light Panel diagram</li> <li>• Update Facility Layout map</li> <li>• Delete inspection requirements for Satellite Accumulation Areas A &amp; B</li> <li>• Remove references to SOP C-204.005-<i>Santa Susana Field Lab (SSFL) Storm Water Pollution Prevention Requirements</i></li> </ul>	<p><i>M. Spenard</i> M. Spenard <i>P. Dassler</i> 12/12/11 P. Dassler <i>P. Rutherford</i> P. Rutherford 12/12/2011 <i>P. Waite</i> P. Waite <i>R. Mako</i> 12/19/2011 R. Mako</p>

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## 1. OBJECTIVE

The Radioactive Materials Handling Facility (RMHF) serves as a storage area for radioactive waste generated during ETEC closure activities, and is the staging point for outgoing shipments of radioactive material and waste to approved disposal sites. The RMHF is an Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Permitted Facility for the storage and treatment of mixed hazardous waste (Permit CA389009000). The facility is currently managed in a safe shutdown condition.

This Procedure describes the maintenance and surveillance activities required for RMHF compliance with applicable federal, state and local regulations and The Boeing Company policies. Included in these activities are the normal opening and closing sequences for the facility, identification of facility alarms and appropriate responses, radiological monitoring and routine inspection requirements for the proper storage of radioactive and mixed wastes on site.

## 2. REFERENCE DOCUMENTS

1. EPA-00046 – RMHF Contingency Plan

## 3. OPENING THE RMHF

1. Enter the facility through the B/4034 east door.
2. Sign in on the daily sign-in sheet for assigned operations personnel
3. Sign, or verify signature on, the RMHF Facility Worker, Radiation Work Permit
4. Enter the yard area through the B/4034 west door. If unusual conditions are suspected, e.g., alarms refer to section 5 of this document for a description of the facility alarms and the appropriate actions to be taken.
5. Unlock B/4021, B/4022, and B/4621 as needed. **NOTE:** B/4021 HEPA filtered ventilation system operation will be required for all operations other than routine inspections.

## 4. SECURING THE RMHF

1. Close and lock buildings B/4021, B/4022, B/4621 and the front vehicle access gate.
2. Review facility sign-in sheets to verify all personnel have exited the facility and sign out.
3. Lock the B/4034 west door then exit and lock the east door of the building.

## 5. ALARM SYSTEMS

Alarms within the facility provide personnel audible and/or visual warnings of off-normal conditions. Actions to be taken by facility personnel depend upon the severity of the condition causing the alarm. Table 1 presents a listing of the alarms within the facility, their functions and the appropriate responses to the alarm.

**Table 1: RMHF Alarms and Responses**

<b>Alarm Type</b>	<b>Location and Description</b>	<b>Purpose</b>	<b>Response</b>
Portable Air Monitor	Bell and flashing red light	Monitors for airborne radioactive contamination within a specific location	Exit area and notify HP. Reenter only with concurrence of HP
Stack Exhaust Monitor*	Bell and flashing red light at base of stack	Monitors stack exhaust for airborne radioactivity	Contact HP
Fire Sprinkler	B/4688, B/4034, and B/4044	Monitors high water flow in each of the three areas protected by sprinklers	Notify the Boeing Communications Center
HEPA Blower-4	Local buzzer with red light	Indicates failure of B/4021 HEPA blower	Stop operations inside B/4021 and notify the facility HP

\* **NOTE:** Refer to facility notification list (RMHF Contingency Plan, EPA-00046) for contact information during off hours. In the event of Stack Exhaust Monitor Alarm, also notify the Health Physics.

## **6. RMHF RADIATION AND CONTAMINATION SURVEYS**

Surveys shall be conducted as determined by Radiation Safety, and are documented on Radiation Survey Report form 732-A. Survey records are maintained by the facility HP, and copies are kept in Radiation Safety files. Additionally, copies of the survey reports are provided to the RMHF PIC for review and appropriate actions as required. Additional surveys are performed as facility operations dictate.

## **7. RMHF SURVEILLANCE AND MANAGEMENT**

RMHF, Site Services, and Security & Fire Protection Services personnel shall conduct the inspections indicated below. As a minimum these inspections shall include: the date and time of the inspection, the name of the person performing the inspection, a description of any observations made, the date and nature of any repairs made and the nature of any required remedial actions. All inspections shall be documented and maintained at the RMHF in accordance with applicable regulatory requirements.

- Mixed waste containers and storage areas shall be inspected weekly and recorded on the RMHF Hazardous Waste Container Weekly Inspection Checklist (Figure 3).
- General facility status shall be checked quarterly and be recorded on the RMHF Quarterly Surveillance Checklist (Figure 2).
- RMHF fire fighting equipment and fire alarms are inspected and maintained by Security & Fire Protection Services personnel.
- The status of mixed wastes at the RMHF shall be recorded in the facility operations record. This record consists of the RMHF Tracking System (RTS), the facility Logbook and the waste container Lot Followers.

**Figure-1 (Example)**

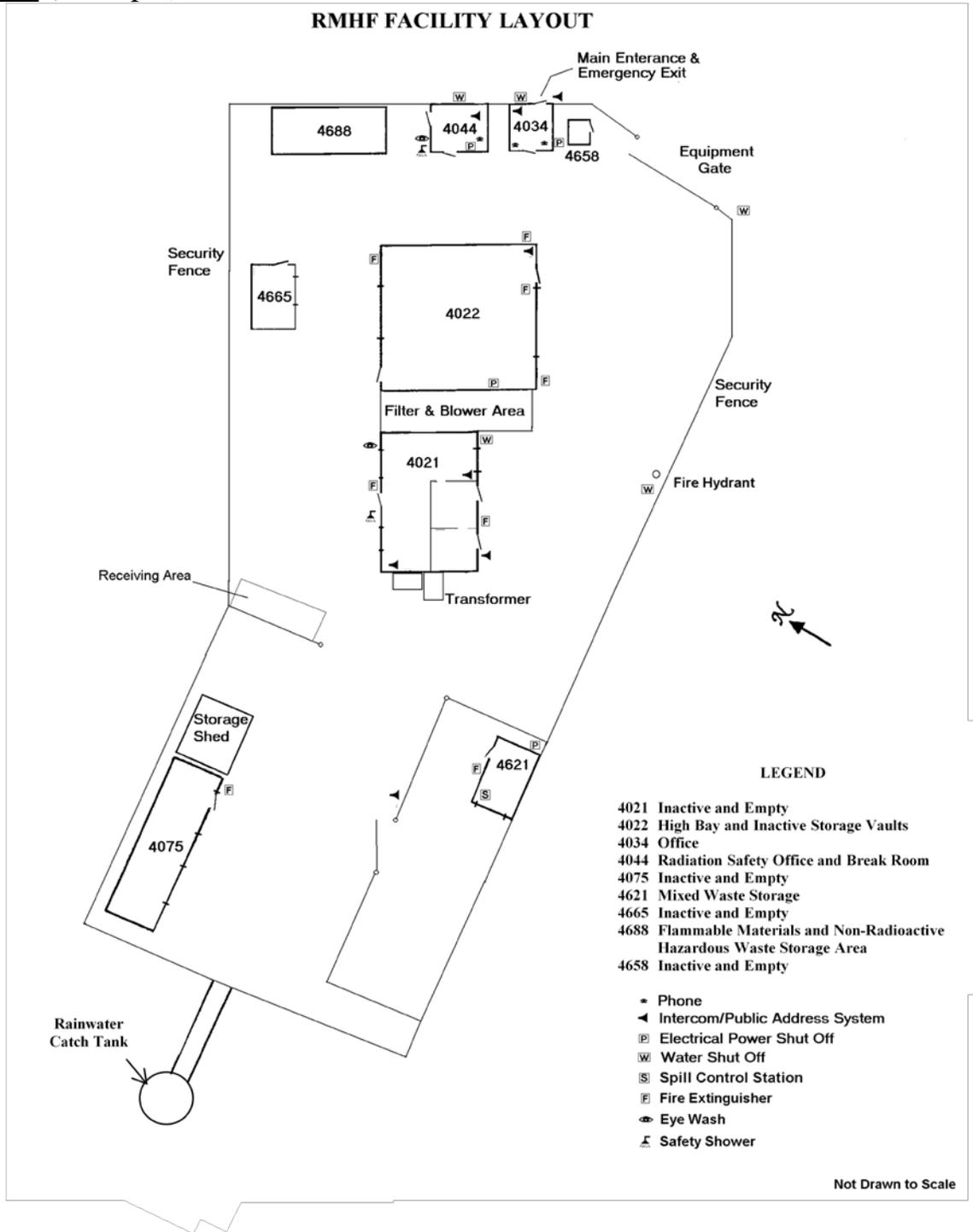




Figure-3 (Example)

RMHF Hazardous Waste Container  
Weekly Inspection Checklist

DATE	INSPECTORS NAME	INSPECTORS SIGNATURE	INSPECTION TIME AM	PM	DEPARTMENT NAME AND NUMBER Environmental Health & Safety, N340
<b>AREA INSPECTION SECTION</b>					
			Number of containers inspected		
			4021	4022	4021
			Yes	No	Yes
			No	Yes	No
Are hazardous waste containers in good condition? (No rusting or apparent structural damage)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are hazardous waste containers free from leaks and residues on the outside of the container?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are hazardous waste containers free of deterioration caused by corrosion of other factors?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the area surrounding the containers free from leaks and residues?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there sufficient space between the hazardous waste containers?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are hazardous waste container lids securely closed and latched?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the hazardous waste being stored compatible with the container?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are incompatible hazardous wastes segregated?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is Hazardous Waste Form 642-J properly filled out and attached to the container?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is hose and safety shower/eye wash unobstructed and operational?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is emergency communication system (phone, facility PA) in working condition?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is fire extinguisher visible, operational & inspected monthly?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is spill control supplies stocked per inventory sheet?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are vault floors free of standing liquid?			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>BUILDING 4075 AND 4075-YARD SECTION</b>					
Are Building 4075 and the 4075-Yard area free of any hazardous waste?			Yes	No	No
<b>NOTE SECTION</b>					
<b>DISCREPANCY INDICATION AND CORRECTION SECTION</b>					
Area Manager: _____			Date: _____		
Describe Discrepancy And Action(s) Taken To Correct:					
Date Discrepancy Corrected: _____			Signature: _____		
Area Manager: _____			Date: _____		

**Evaluation and Action**  
All "Yes" answers mean no discrepancies exist. A "No" answer to any question means a discrepancy exists that requires immediate corrective action. Notify the area manager of the discrepancy and indicate the action taken in the "Discrepancy Indication And Correction Section". The area manager must co-sign the inspection checklist when a discrepancy exists. When discrepancy has been corrected, area management must fill in date of correction and sign where indicated.  
**NOTE:** Completed weekly container inspection checklists are to be kept at or near the location where the hazardous waste containers are stored.