

START

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TDE-DO-95

Internal Letter



Rockwell International

Transmittal

Date: May 12, 1987

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Project or Subject:

COMMENT COPY

Please return this form and comments to Ed Powers, 1720-K/K3, 100-K Area no later than May 18. If you have no comments, please note as such on this form.

NO. OF EACH	NAME	BLDG.	AREA
1	JF Beckstrom	1720-K	100-K
3	JF Bertsch	1720-K	100-K
1	JR Brehm	1720-K	100-K
1	BJ Carlson	1720-K	100-K
1	PW Griffin	1720-K	100-K
1	PA Holmes	1720-K	100-K
1	MC Hughes	1721-K	100-K
1	BW Mathis	1720-K	100-K
1	DR Speer	1720-K	100-K
1	LW Vance/UNC	325	300
3	RE (Becky Wickenhauser/UNC)	1114N/S5	100-N

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ATTACHED ARE	THEY ARE TO BE USED FOR	THESE ARE	PLEASE NOTE	PLEASE
<input type="checkbox"/> Requisitions	<input type="checkbox"/> Estimating	<input type="checkbox"/> Preliminary	<input type="checkbox"/> Revision	<input checked="" type="checkbox"/> Comment
<input type="checkbox"/> Prints	<input type="checkbox"/> Ordering Mat'l.	<input type="checkbox"/> Unchecked	<input type="checkbox"/> Holds	<input type="checkbox"/> Approve
<input type="checkbox"/> Photos.	<input type="checkbox"/> Securing Quot.	<input type="checkbox"/> Checked	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Specifications	<input type="checkbox"/> Construction	<input type="checkbox"/> Final	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Tracings	<input type="checkbox"/> Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Special Procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DRAWING NUMBERS, TITLES AND COMMENTS:

Special Procedure D0-25, Walkway Removal from the 183-H Basin Facility.

For additional information, please contact Ed Powers at 3-1099.





Rockwell International

SPECIAL-PROCEDURE

PROCEDURE NO Special Procedure
DO-25

FACILITY
183-H

DATE ISSUED

PAGE NO
1 of 4

PROJECT
183-H Solar Evaporation Ponds

SUPERSEDES ISSUE DATE
NEW

ACTIVITY
Walkway Removal From The 183-H Basin Facility

Prepared by Decommissioning
Engineering

MANAGER DECOMMISSIONING ENGINEERING

MANAGER DECOMMISSIONING OPERATIONS

Author
E.W. Powers

Manager, Envir. or Occup. Safety

Rad. Protection

QA

1.0 INTRODUCTION

1.1 Purpose

The purpose of this procedure is to detail the basic steps required to safely remove the walkways from the 183-H Facility.

1.2 Scope

The scope of this procedure is limited to the removal of the walkways from between the subsidence and the flocculator basins. Removal of these walkways is required to permit the crane operator greater visibility while placing and removing drums from the subsidence basin during the sludge removal project. Removal of each walkway will result in a safer working mode and should expedite the removal of the sludge filled drums.

2.0 RESPONSIBILITY

The designated field supervisor and project coordinator shall be responsible for ensuring the correct implementation of this procedure.

3.0 PREREQUISITES

All personnel shall be familiarized with the safety and radiological procedures and precautions outlined in the Job Safety Analysis (JSA) and the Radiation Work Procedure (RWP).

4.0 EQUIPMENT

- Grove Crane
- Stanley Hydraulic Power Supply, Saw and Jackhammer
- John Deere Tractor
- Oxyacetylene Cutting Equipment
- Portable Generator
- Portable Band Saw

NOTE: THIS EQUIPMENT LIST IDENTIFIES THE MAJOR TOOLS AND EQUIPMENT THAT MAY BE USED TO ACCOMPLISH THIS SPECIAL PROCEDURE.

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SPECIAL PROCEDURE

PROJECT	PROCEDURE NO.	PAGE NO.
Walkway Removal From The 183-H Basin Facility	D0-25	2 of 4
<p>5.0 <u>HEALTH AND SAFETY REQUIREMENTS</u></p> <p>5.1 <u>Radiological Control</u></p> <p>All work will be performed in compliance with the following documents:</p> <ul style="list-style-type: none">● RHO-MA-220, <u>REV 1, Quarterly Exposure Limits</u>● UNI-M-30, <u>Radiation Control Manual</u>● UNI-M-3, <u>Radiation Practice Manual</u>; includes the ALARA program and Radiation Exposure Reduction Guide● UNI-M-31, <u>Environmental Control Manual</u>● UNI-M-33, <u>100 Area Radiation Work Procedure</u> <p>All work that is designated in this Special Procedure is to be accomplished in accordance with a Radiation Work Procedure (RWP) specifically prepared for this task. If changing field conditions dictate, the RWP requirements may be upgraded by the Radiation and Water Quality Control (R&WQC) supervisor or downgraded by the Radiological Engineering personnel. Work shall not proceed unless an approved RWP is posted.</p> <p>5.2 <u>Industrial Safety</u></p> <ul style="list-style-type: none">● All work shall be performed in compliance with applicable standards OSHA/WISHA and UNI-M-38, <u>Industrial Safety Manual</u>.● When hoisting and rigging, comply with UNI-M-122, <u>UNC Hoisting and Rigging Manual</u>.● Comply with UNI-M-38, Control No. 36, <u>Personal Protection Equipment</u>, when working to this procedure.● Comply with UNI-M-38, Control No. 104, <u>Noise</u>, when working to this procedure.● Comply with UNI-M-38, Control No. 19, <u>Compressed Air</u>, when working to this procedure.● Comply with UNI-M-38, Control Nos. 16 and 29, when using ladders, work platforms, scaffolds, etc.● A Job Safety Analysis (JSA) has been prepared in accordance with UNI-M-38, <u>Industrial Safety Manual</u>, Control No. 11, and attached to this procedure. The JSA "hazard control" section includes "D&D Safe Work Practices", and lists items that are to be reviewed as part of the job preparation.		
DATE ISSUED	SUPERSEDES ISSUE DATE	

9 2 1 2 0 1 1 4 7 8

SPECIAL PROCEDURE

PROJECT

Walkway Removal From The 183-H Basin Facility

PROCEDURE NO

DO-25

PAGE NO.

3 of 4

5.3 Other Requirements

- o UNI-M-202, Decommissioning Services Quality Assurance Implementation Plan Impact Level III, applies to work involved in the completion of this procedure.
- o UNI-3081 REV1, 100 Area Decommissioning Engineering Records Control Procedure.

6.0 PREPARATORY WORK

No preparatory work is required. DWP-183-H-1 REV 3, 183-H Solar Pond Decommissioning Assured Containment - Sludge Removal/Disposal, is currently being implemented at this facility.

7.0 WALKWAY REMOVAL

The walkway will be removed in sections, starting at one end and working toward the other end. The entrance to one end of walkway will be closed off by installing a permanent barricade or section of guardrail across the opening, from guardrail corner to corner. Then the walkway sections will be cut out and removed while working toward the intact side of the walkway. This affords a logical sequence for removal, with maximum safety. When all horizontal sections of walkway have been removed, the three vertical walkway supports can then be removed. The procedural steps to accomplish this are listed as follows:

- 7.1 Permanently seal off entrance to walkway, which end is optional. A section of handrail may be cut (from the first section of walkway to be removed) to place across the opening or two full 55 gallon drums may be located to block this opening.
- 7.2 Workers shall be equipped with safety belts attached to the lower handrail vertical support or to the crane hook.
- 7.3 Rig the first section to be removed (at the sealed end of the walkway). This section, when cut, will be approximately 10 ft in length and weigh 16,685 lbs. These sections may be cut in half (5 ft) sections to facilitate removal.
- 7.4 Takeup slack in rigging until weight is supported.
- 7.5 Cut handrail at each of walkway sections.
- 7.6 Cut across walkway approximately 12 in. from basin wall (sealed off end).
- 7.7 Back up to first vertical support and cut through walkway.
- 7.8 Remove section of walkway and relocate in bottom of #1 basin. If necessary, place walkway section on a papered portion of the access roadway for temporary storage.

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SPECIAL PROCEDURE

PROJECT Walkway Removal From The 183-H Basin Facility	PROCEDURE NO DO-25	PAGE NO 4 of 4
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7.0 WALKWAY REMOVAL (Cont'd)

- 7.9 Rig second section, take up slack in rigging to support section.
- 7.10 Cut handrail at end of walkway section.
- 7.11 Cut through walkway on opposite side of vertical support from the previous cut.
- 7.12 Pre-rig the vertical support column, then lay slack rigging and lifting ring down into the flocculator basin. This will facilitate removal of the supports later.
- 7.13 Repeat cutting to free up other end of section to be removed.
- 7.14 Remove second section for placement into basin #1.
- 7.15 Repeat cutting and removing sections of walkway in accordance with previous steps until last section is ready for removal.
- 7.16 Install a permanent handrail across entrance to walkway, then remove last section of walkway.
- 7.17 Remove the three vertical walkway supports next. All three shall have been previously rigged.
- 7.18 Take up most of slack in rigging. Weight of the vertical support with remaining portion of walkway is 4,500 lbs.
- 7.19 Snap off vertical support, either with crane or by pushing with raised front loader tractor.
- 7.20 Remove all three supports and locate into basin #1.
- 7.21 Cut off rebar protruding from flocculator basin floor and level off concrete surface, this will prepare surface for the liner installation.

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JOB SAFETY ANALYSIS		Job Description 183-H Walkway Removal		JSA Number
		Component 183-H Solar Pond Decommissioning		Building 183-H
Reviewed By INDUSTRIAL SAFETY		Prepared By E. W. Powers		Date 5/11/87
Date	Initials	Review Dates		
SAFETY EQUIPMENT REQUIRED		TOOLS & EQUIPMENT REQUIRED		JOB PREPARATION
<ol style="list-style-type: none"> 1. Hard Hats 2. Safety Shoes 3. Protective clothing per RWP. 4. Eye Protection 5. Hearing Protection 6. Gloves 7. Safety litter 8. Safety Belts 		<ol style="list-style-type: none"> 1. Oxyacetylene cutting equipment. 2. Hydraulic power pak jackhammer & saw. 3. Crane and rigging equipment. 		<ol style="list-style-type: none"> 1. Review applicable UNI-M-38 and UNI-M-122 Controls as outlined in procedure. 2. Review JSA and applicable RWP.
		HAZARDOUS MATERIALS		RELATED REQUIREMENTS
		<ol style="list-style-type: none"> 1. Flammable gases. 2. Compressed air. 3. Heavy objects. 		Radiation Work Procedure Yes <input type="checkbox"/> No <input type="checkbox"/> Nuclear Safety Spec. Yes <input type="checkbox"/> No <input type="checkbox"/>
JOB STEP		HAZARD		HAZARD CONTROL OR PROTECTIVE EQUIPMENT
<ol style="list-style-type: none"> 1. All job steps. 2. Cutting sections. 3. Hoisting objects. 4. Cutting steel rebar. 		<ol style="list-style-type: none"> 1. Falling 2. Noise, flying debris. 3. Falling objects. 4. Open flame. 		<ol style="list-style-type: none"> 1. Use safety belts. 2. Use ear and eye protection and safety shoes. 3. Rope off area. Assure proper rigging. Do not move objects over people. 4. Fire extinguisher.