



... Putting Technology To Work

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May 27, 2003

Mr. Thomas Baillieul, Director  
U.S. Department of Energy  
Columbus Closure Project  
1425 Plain City-Georgesville Rd.  
West Jefferson, OH 43162

Dear Mr. Baillieul:

## **WEEKLY HIGHLIGHTS (May 17–23, 2003)**

### **I. Operations:**

#### **Building JN-1:**

Work Instruction (WI-1131) for reroofing the JN-1 Pump Room area was completed.

AHC, Inc., continued to remove asbestos from the work areas in the Controlled Access Area (CAA) and the Old Back Dock (OBD).

Work on WI-1189 covering removal of the Alpha-Gamma Cell (AGC) utilities and equipment continued this week. The remaining work includes rerouting two drain lines and removing the evaporator storage tank.

Work on WI-1147 that covers removing the High Energy Cell (HEC) inner barrier glass and window liner began this week. The barrier glass for all five windows has been removed and workers proceeded with grinding the welds off of the liners at windows 15 and 16 to allow them to be removed. Work was stopped to evaluate the airflow in the cell after one of the workers had an elevated air sample during grinding operations. Airflow patterns were tested by opening various ports to allow makeup air into the cell. Administrative controls are being established to help control airborne contamination, and engineering controls also are being added.

Work continued on WI-1159, Utility Removal in the CAA/OBD, Old Operations Area and the Evaporator Room, and is anticipated to continue next week.

Work continued on WI-1159, Utility Removal in the CAA/OBD, Old Operations Area and the Evaporator Room, and is anticipated to continue next week.

Work continued on the JN-1 Pump Room. A pad was poured for outside equipment, underground utilities were marked, openings were cut in existing walls, and final design of ductwork was begun. The construction schedule was received from Sauer.

**Building JN-3:**

Water is being continually pumped from under the JN-3 basement via the wells and pumps installed in the Pump Room and around the reactor pool.

**Building JN-4 Isolation Plan:**

Electric Contract—The electric contract for JN-4 isolation work was issued to Dynalectric. The kickoff meeting for the work was tentatively scheduled for early June.

A revised quote for the underground utility work was received from Sauer, and an initial estimate was received from Bruner. Both quotes are currently undergoing technical evaluation in preparations for making the selection.

A prebid meeting was held with four proposed contractors for the roadway construction and a revised Scope of Work was issued. The engineering estimate for the work was received, and quotes were received from three contractors (one declined to bid).

**Saxton Waste Management:**

Writing the work instructions continued this week to transfer the pin to the CAA, remove it from the liner, place it into a container, and store it until it is shipped. Transfer cask #22 was taken into the CAA, cleaned out, and coated with poly-coat. The interior will be clean for transferring the canister with the pin in it to the High Bay for loading into the shipping cask. The water tank for performing the underwater pin removal was received.

**West Jefferson (WJ) External Areas:**

Groundwater is being pumped from the wells on the exterior of JN-3

**TRU Waste Shipping:**

Review of bids from three vendors to perform the remote welding of the inner canister for the 72-B cask continued this week. The bids were sent to the Waste Isolation Pilot Plant for input from a quality assurance and welding engineering viewpoint. It is anticipated that a decision will be made next week and the procurement process will get underway so that it can go to the DOE Ohio Field Office for approval.

Potential sites for locating a TRU waste staging area were reviewed with Battelle facilities representatives. The purchase order for the designing of the staging area was submitted to procurement. The price quotes for purchase of shielding units were evaluated and the decision was made to purchase from multiple vendors in order to shorten the delivery time.

**Low Level Waste (LLW) Operations:**

Three (3) 55-gallon drums of LLW were compacted in the JN-1 Charpy Cell.

Twenty-eight cubic feet (28 ft<sup>3</sup>) of compactible LLW were accepted for packaging. Non-compactible low-level debris from radioactive materials areas in JN-1 and JN-3 was packaged into B-25 boxes and IP-1 intermodal containers, for a total volume of 1,069 ft<sup>3</sup> for Envirocare of Utah disposal.

One B-12 box of mixed LLW (MLLW) lead from the HEC was packaged; it was staged in the JN-1 "Sheep shed" <90-day Resource Conservation and Recovery Act accumulation area. The MLLW is destined for treatment and disposal at Envirocare.

Forty cubic feet (300 gallons) of JN-1 Machine Shop sump water was radiologically free-released and transferred into the JN-1 evaporator.

One hundred twenty cubic feet (120 ft<sup>3</sup>) of concrete waste were radiologically free-released for municipal disposal.

One IP-2 Sealand container of LLW debris and soil was shipped to Envirocare for disposal. Total volume of LLW shipped was 900 ft<sup>3</sup>.

**WIDE Technology Deployment:**

The advance copies of the injection and extraction procedures are in the comment and review stages. Engineering modifications to extract water from the field are nearing completion. (WI-984) WI-1132 for extraction testing is in the review stage.

**II. Environmental Safety and Health Performance:**

Safety performance is 241 days and 168,524 exposure hours without a lost time injury accident.

**III. Facilities and Equipment:**

Daily, weekly, and monthly inspections and maintenance for the WJ North facility alarms, instrumentation, building functions, tickler system, and grounds were completed. The evaporator was turned off. The contractor performed pressure tests on building fire extinguishers. Staff assisted with site tours during the week. Planning continued for JN-1 HEPA system reroutes to maintain building negative pressure during removal/decontamination of existing contaminated HEPA ducting. A high differential

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pressure on the HEPA filter system of the JN-2 environmental lab was corrected with a prefilter change.

**IV. Future Work Activities:**

Attached is the projected work schedule for the coming weeks.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick Weaver', with a long horizontal flourish extending to the right.

Patrick Weaver, P.E., Manager  
Operations

PJW:dew/dmk





# Waste Issue Tracking

*Issue:* JN-4 Plutonium Repackaging

*Project Manager:* Parsons

**Task:** P-1 **Date Due:** 5/15/2003

HNF acceptance **Date Complete:** 5/15/2003

**Date Identified:** 4/30/2003

**Task Owner:** Eide

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Box acceptance	4/30/2003	Eide	5/15/2003	Much waste is in boxes rather than drums (due to content's size). Standard waste boxes will be used for packaging regardless of HNF approval, and SWBs will be shipped in 72B casks.	5/15/2003

**Task:** P-2 **Date Due:** 5/12/2003

Schedule for Pu Repackaging **Date Complete:** 5/8/2003

**Date Identified:** 4/30/2003

**Task Owner:** Parsons

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Create Schedule	4/30/2003	Parsons	5/12/2003	Can start repackaging in the June/July timeframe at latest to accomplish work by Oct 1.	5/8/2003

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**Task:** P-3 **Date Due:**  
Operational Planning **Date Complete:**

**Date Identified:**

**Task Owner:** Parsons

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<b>Subtask</b>	<b>Date Identified</b>	<b>Subtask Owner</b>	<b>Date Due</b>	<b>Status</b>	<b>Date Completed</b>
	Prepare Work Instruction	Parsons		WI preparation is dependent upon the decided work location (see P-3.2).	
P-3.2	Prepare work area	Garber		The work location for repackaging is planned for prior work, and will be prepared to serve as the work area for multiple hot/airborne potential operations.	

*Issue: Saxton Pin*

*Project Manager: Henderson*

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**Task:** S-1                      **Date Due:**  
Obtain use of GE-2000      **Date Complete:**  
Cask.  
**Date Identified:** 4/18/2003  
**Task Owner:** Weaver

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Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Modify GE-2000 CoC	4/18/2003	Weaver	5/28/2003	GE visited on 4/29/03 to evaluate site options for modification to CoC. Upon careful review, GE has determined that a CoC is not required for this shipment. This determination has been confirmed with NRC.	5/13/2003
S-1.2	Obtain GE QA Manual	4/29/2003	Pomares (GE)	5/2/2003	5/2/2003
S-1.3	Place GE on ASL	4/29/2003	Welch	5/6/2003	GE QA Manual has been reviewed. 5/6/2003
S-1.4	Complete SRS paperwork	4/29/2003	Maheras	6/1/2003	
S-1.5	Register as a Cask User	4/29/2003	Eide	6/1/2003	R. Pomares will send an example registration letter.
S-1.6	Prepare RFQ/RFP	5/12/2003	Henderson	5/15/2003	RFQ Sent 5/16/03. Waiting for GE to send estimate.

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**Task:** S-2                      **Date Due:** 6/5/2003  
Mock up - unload pin      **Date Complete:**  
**Date Identified:** 4/18/2003  
**Task Owner:** Henderson

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Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
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S-2.1	Fabricate Mock-up Liner	4/18/2003	Garber	4/22/2003	Liner has been received.	4/28/2003
S-2.2	Plan for mock-up of pin removal	4/18/2003	Henderson	4/30/2003	Documentation for a series of WIs to accomplish this is being prepared.	5/8/2003
S-2.3	Perform Mock-up	4/18/2003	Henderson	6/5/2003		

**Task:** S-3 **Date Due:** 4/21/2003

Schedule for pin effort **Date Complete:** 4/28/2003

**Date Identified:** 4/18/2003

**Task Owner:** Weaver

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Provide schedule to DOE	4/18/2003	Weaver	4/21/2003	A draft schedule was submitted to DOE.	

**Task:** S-4 **Date Due:** 5/6/2003

DOE Executive Decisions **Date Complete:** 5/20/2003

**Date Identified:** 4/30/2003

**Task Owner:** DOE

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
DOE conference call (NEPA)	4/30/2003	DOE		DOE has decided to ship under CX.	
S-4.2	Notify SRS to receive pin	Weaver	5/6/2003	DOE-OH sent DOE- SRS request for support.	5/13/2003

**Task:** S-5 **Date Due:**

Transportation Plan **Date Complete:**

**Date Identified:** 5/13/2003

**Task Owner:** Eide

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
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Determine Security

5/13/2003

5/23/2003 Shipment **pin** not HRC, but any security needs must be identified.

Prepare

S-5.

Ridge plan received example.

*Issue:* TRU Shipment to Hanford

*Project Manager:* Garber

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**Task:** TH-1 **Date Due:** 5/16/2003

Lift Shipment Prohibition **Date Complete:**

**Date Identified:** 4/18/2003

**Task Owner:** DOE-RL

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Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Argue in Federal Court	4/18/2003	DOE-RL	5/2/2003	Judge has decided to maintain injunction. The only current option to ship to Hanford is for DOE to appeal this ruling.	5/9/2003

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**Task:** TH-2 **Date Due:** 5/16/2003

14-day Shipping Notice **Date Complete:**

**Date Identified:** 5/5/2003

**Task Owner:** Eide

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Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Initiate shipping notice paperwork	5/16/2003	Eide	9/30/2003	The Judge has upheld the injunction (See item TH-1.1). We are unlikely to ship any TRU to HNF prior to 9/30/03.	

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*Issue: TRU Storage On Site*

*Project Manager: Rohrig*

**Task:** TO-1 **Date Due:** 5/22/2003

Define options **Date Complete:**

**Date Identified:** 4/18/2003

**Task Owner:** Weaver

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Determine Path Forward	4/18/2003	Weaver	5/22/2003	Onsite Storage is our only current option. A number of potential staging sites have been identified.	5/22/2003
TO-1.2	Discuss options with Security/Facilities	5/12/2003	Weaver	5/22/2003	Staging location options must meet approval of both Battelle Security and Facilities. Currently investigating potential sites.
TO-1.3	NRC schedule impact by option	5/22/2003	Friedman	5/28/2003	Schedule conference call with NRC to discuss.

**Task:** TO-2 **Date Due:** 5/6/2003

Storage facility design **Date Complete:**

**Date Identified:** 4/28/2003

**Task Owner:** Weaver

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed	
Define design inputs	4/28/2003	Weaver	5/23/2003	Exact purpose of facility is not yet known.		
TO-2.2	Complete design	4/28/2003	Weaver	5/23/2003	Complete design based on item TO-2.1 and NRC Information Notices.	
TO-2.3	Unify interpretations	4/30/2003	Friedman	5/6/2003	Conference call with NRC, DOE, and BCLDP to define path forward and interpretations.	5/6/2003

TO-2.4      Cost Estimate      4/28/2003      Weaver      5/16/2003      5/16/2003

**Task:**                      TO-3                      **Date Due:**              5/23/2003

Assure coverage under NEPA      **Date Complete:**      5/15/2003

**Date Identified:**      5/6/2003

**Task Owner:**              Weaver

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Review BCLDP EA	5/6/2003	Swartz	5/23/2003	Review of the 2001 Updated EA determined that onsite temporary storage of TRU is covered with respect to NEPA. Awaiting a formal memo attesting to this from Battelle NEPA expert.	

**Task:**                      TO-4                      **Date Due:**

Purchase Shielding units      **Date Complete:**

**Date Identified:**      5/14/2003

**Task Owner:**              Weaver

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed	
Submit P.O.s	5/14/2003	Weaver	5/16/2003	Submit to multiple vendors (Dufrane and Duratek). P.O.s Should be flexible enough to allow multiple configurations.		
TO-4.2	Determine appropriate configuration	5/14/2003	Weaver	5/22/2003	5 pc. or 2 pc. Configuration of storage units will be dependent on onsite storage location.	5/22/2003

**Task:** TO-5 **Date Due:**  
 NRC Approval **Date Complete:**  
**Date Identified:** 5/6/2003  
**Task Owner:** Allen

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Submit storage plan to NRC	5/6/2003	Allen	6/1/2003	Preparation of plan somewhat dependent upon chosen storage location.	

**Task:** TO-6 **Date Due:**  
 72-B Casks **Date Complete:**  
**Date Identified:** 5/12/2003  
**Task Owner:** Weaver

Subtask	Date Identified	Subtask Owner	Date Due	Status	Date Completed
Cask Demonstrations		Garber	8/1/2003	Must be completed prior to loading waste into 72-B Casks.	
TO-6.2 Obtain 2 72-B Casks from WIPP		Eide	5/22/2003	Make formal request during Small Quantity Site conference call.	5/5/2003

*Issue: TRU Shipment to WCS*

*Project Manager: Erickson*

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**Task:** TW-1                      **Date Due:**  
Amend ROD                      **Date Complete:**  
**Date Identified:** 4/18/2003  
**Task Owner:** DOE-CAO

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<b>Subtask</b>	<b>Date Identified</b>	<b>Subtask Owner</b>	<b>Date Due</b>	<b>Status</b>	<b>Date Completed</b>
Update small quantity site's TRU data to allow ROD update	4/18/2003	DOE-CAO		Amend TRU Programmatic EIS ROD to include interim storage at WCS.	
TW-1.2	DOE OFO contact WIPP	5/14/2003	DOE OFO		
TW-1.3	BMI Offer Assistance	5/14/2003	Eide	5/23/2003	Battelle to offer assistance in amending ROD to Ines Triay. Also Discuss WCS option with Vernon Dobb.