

## FACILITY STATUS CHANGE FORM

Date Submitted:	Area: 200E	Control Number: D4-PUREX-035
Originator: Daniel Turlington	Facility ID: 275EA	Phone: 509-373-0176

## Action Memorandum/Removal Action Work Plan:

DOE/RL-2010-33, Rev. 0

This form documents the status of facility decontamination, deactivation, decommissioning, and demolition operations or debris removal in accordance with the applicable regulatory decision documents.

**Section 1: Facility Status**

All D4 operations required by action memo complete.

**Description of Completed Activities and Current Conditions:**

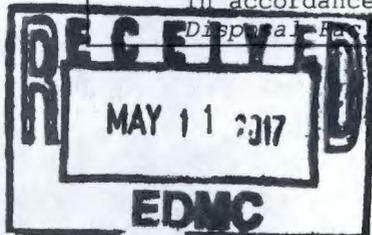
The required facility removal actions were performed in accordance with the DOE/RL-2010-33, Rev. 0, *Removal Action Work Plan for Central Plateau General Decommissioning Activities*.

275EA was constructed in 1944 in the 200E area north of PUREX. The building was used as a warehouse to store non-radioactive parts and miscellaneous building materials for the PUREX Canyon such as electrical jumpers, wire rope slings, etc.

Demolition of 275EA was performed during July of 2016. The above ground portion of the warehouse facility was completely removed down to its slab. Due to the surrounding land contours, the remaining slab is at grade on the Southside of the facility. However, on the Northside the slab is approximately 3 ft. above grade. A safety railing remains around the perimeter of the section that has the 3 ft. elevation. Waste associated with this demolition was characterized under Waste Profile Number WPPRCIF001, Rev 9, and disposed of at the Environmental Restoration Disposal Facility (ERDF) (Attachment 1).

The following actions were specifically implemented for 275EA:

- Hazardous substances, if present, were removed from within and around the structure. All hazardous substances removed were characterized and disposed of in accordance with waste management Applicable or Relevant and Appropriate Requirements (ARARS) and receiving facility waste acceptance criteria.
- Beryllium sampling indicated no beryllium present, sample number 16-20751-001 to 032 (Attachment 2).
- All utility connections (e.g., electrical) were severed at their sources (service point). Connections were also severed at the building entry point at grade.
- All penetrations were plugged at the slab and all protruding rebar was bent to mitigate safety concerns.
- Steam lines, their supporting stanchions, and the associated French Drain at 275EA were removed.
- Historical Preservation and Ecological Resource Evaluations were performed in accordance with National Environmental Policy Act of 1969 requirements to address the impacts of demolition at the site. (HCRC#88-200-038, letter #CHPRC-1602143 "Cultural and Ecological Review for the Demolition of 275EA Warehouse Building and Utility Isolation") (Attachment 3).
- The 275EA structure is estimated to weigh approximately 503.5 tons.
- Internal Radiological surveys of 275EA were performed to establish conditions of non-contamination prior to demo. Radiation survey "RC-1601334" was performed to establish the as left condition of the left in place slab. No direct or removable contamination was found above background levels (Attachment 4).
- All waste generated during demolition was characterized, shipped, and disposed of in accordance with waste management ARARS and WCH-191, *Environmental Restoration Disposal Facility Waste Acceptance Criteria*, as amended.



### FACILITY STATUS CHANGE FORM (continued)

Date Submitted:

Area: 200E

Control Number: D4-PUREX-035

**Description of Completed Activities and Current Conditions:**

- Asbestos on or in 275EA was managed as ACM and shipped to ERDF for disposal (Attachment 5).

**Total D4 Cost for the Facility:**

\$711K

**Section 2: Underlying Soil Status**

- No waste site(s) present. No additional actions anticipated.
- Documented waste site(s) present. Cleanup and closeout to be addressed under a separate CERCLA Response Action.
- Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned. Cleanup and closeout to be addressed under a separate CERCLA Response Action.

**Description of Current/As-Left Conditions:**

The 275EA warehouse facility was completely removed down to its remaining slab. No safety hazards remain. CPSM Entry restriction and project ownership signs with contact information were posted as entry precautions for others.

**Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):**

WIDS #200-E-124 is a URMA where railroad cars were parked and offloaded into the 275EA building. No contamination above background is present.

**Section 3: List of Attachments**

Attachment 1 275EA pictures: pre, during and post demolition

Attachment 2 Beryllium Survey sample number 16-20751-001 to 032

Attachment 3 Historical and Cultural review letter #CHPRC-1602143

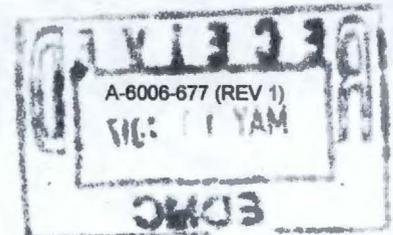
Attachment 4 Radiologic Survey RC-1601334

Attachment 5 EPA Email Concurrence on Asbestos Management

Robert Long  
DOE-RL Print

R Long  
Signature

2/28/2017  
Date



**FACILITY STATUS CHANGE FORM (continued)**

**Date Submitted:**

**Area:** 200E

**Control Number:** D4-PUREX-035



Pre-demo 275 EA



Pre-demo 275 EA



During Demo 275 EA



During Demo 275 EA



Post Demo 275 EA



Post Demo 275 EA



Post Demo 275 EA



Post Demo 275 EA

**Beryllium Verification Report**  
**275EA/200E**  
**May 19, 2016**

**I. Executive Summary**

275EA is large vacant warehouse located north of PUREX in the 200E Area. The building is being prepared for demolition in 2016. Beryllium verification sampling was performed in the building on April 20, 2016. A total of 31 bulk samples were collected. Results of the verification sampling indicate that the building is Beryllium Cleared for demolition.

**II. Introduction**

275EA was constructed in 1944 and is located in the 200E Area north of PUREX. The building contains approximately 35,000 ft<sup>2</sup> and was formerly used as a warehouse to store non-radioactive parts and miscellaneous building materials for the PUREX Canyon such as electrical jumpers, wire rope slings, etc. The building is L-shaped and includes four (4) separate fire divisions with fire doors and parapet walls extending through the roof. The facility was shut down in the 1990's and is currently under the control of CHPRC D&D. The building has been locked, vacant and unoccupied for over 20 years. It is formerly managed by CHPRC CP S&M and recently transferred on May 2, 2016 to CHPRC D&D for demolition preparation and demolition, planned for 2016.

A Beryllium Facility Assessment was performed on 275EA on September 28, 2015. Past usage of the building did not include potential beryllium activities or stored beryllium containing materials. The building has uncharacterized EDE but characterization sampling was not recommended. No previous historical beryllium sampling has been performed in 275EA.

**III. Methodology**

Verification sampling is required prior to building demolition as per DOE-0342. A CHPRC CIH developed a Beryllium Verification Sampling Plan for 275EA, provided in Appendix A. The Sampling Plan is based upon characterization/verification criteria specified in DOE-0342-002, Rev. 2, Hanford Site Wide Assessment and Characterization/Verification of Buildings Procedure. The building was considered one survey unit for the verification sampling due to common usage.

Beryllium verification sampling was conducted by a CHPRC Industrial Hygiene Technician (IHT) on April 20, 2016. 31 bulk samples were collected. A drawing of the building with the sample locations is provided in Appendix B. Bulk samples were collected on visibly dusty surfaces and areas to determine if the beryllium in the dust collected is distinguishable from the background beryllium in local soils. All of the samples were bulk samples because of the highly visible amounts of dust deposited on surfaces in the facility.

**IV. Deviations**

The analytical laboratory notified CHPRC that Sample 16-20571-004 contained insufficient sample volume for Beryllium analysis by NIOSH 7300. The sample was voided after discussion with the CHPRC Beryllium SME.

**V. Results**

The beryllium sampling results are provided in Appendix C. The IH Sampling Survey is 16-20751 in the Site Wide IH Database.

A total of 31 bulk samples were collected in suspect random surfaces in the 4 fire divisions on floors, walls, structural beams and ceiling mounted heaters. The bulk samples include samples collected utilizing the micro-vacuum sampling technique and samples collected using traditional manual bulk sampling method. Bulk sampling results have been compared to the Hanford Site background beryllium soil concentrations of 2 µg/g (2 ppm). All of the bulk sample results are less than the Hanford Site background beryllium limit with sample results ranging from 0.50 µg/g to 0.97 µg/g. Based on the Test Critical Value Table in DOE-0342-002 Rev 2, a minimum of 29 samples were needed to determine 275EA to be beryllium cleared.

Photographs of sample locations of representative building materials and substrates are provided in Appendix D.

**VI. Conclusions**

275EA is Beryllium Cleared based on the results of the characterization sampling. No further sampling is required prior to demolition.

**VII. Recommendations**

- 1) The results of the 275EA Beryllium Verification Sampling should be reviewed with CHPRC D&D and CP S&M employees upon approval of this report.

**VIII. References**

None

VERA HOLDEN, CIH, CSP, ARM / [Signature] 5/24/2016  
Prepared By: (Print/Sign) Date

Scott Seydel CIH, CSP / [Signature] 5/24/16  
Reviewed By: (Print/Sign) Date

BERYLLIUM CHARACTERIZATION/VERIFICATION SAMPLING PLAN	
<b>Job Information:</b>	
a) Title:	Beryllium Characterization/Verification Sampling of 275EA
b) Location:	200E - north of PUREX
c) Purpose:	<input type="checkbox"/> Complete Characterization <input type="checkbox"/> Partial Characterization <input checked="" type="checkbox"/> Verification Sampling
<b>Identified Survey Units:</b> The building is a vacant warehouse and contains approximately 35,000 ft <sup>2</sup> within 4 fire divisions. There was common usage of the building. Although greater than 20,000 ft <sup>2</sup> , the Beryllium Assessment Team has agreed to treat the the entire building as one survey unit.  (See attached drawing)	

Survey Unit	Historical Sample Data	Identified Sample Locations <span style="float: right; border: 1px solid black; padding: 2px;">ADD ROW</span>	Required Number of Sample Points For Survey Unit
275EA building	None	8 samples per fire division on floors, walls, structural beams, and on ceiling mounted heaters (if present)	32
			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>

**Personal Protective Equipment:**  
 Substantial footwear, safety glasses with side shields, disposable shoe covers, latex or nitrile gloves. An N-95 disposable particulate filter mask may be worn on a voluntary basis.

## BERYLLIUM CHARACTERIZATION/VERIFICATION SAMPLING PLAN

**Work Practices:**

- No lighting is present in the building. Portable lighting and flashlights shall be used for the sampling.
- A battery operated scissor lift shall be used for sampling upper walls and structural beams and ceiling mounted heaters.
- Anchor screws in the concrete slab shall be removed or protected prior to the work to reduce trips and falls and provide a level floor for use of the elevated lift.
- The roof is damaged in the Southeast corner of the building. Avoid standing water.
- Avoid mold damaged sheetrock.
- Contact Pest Control and IH if deer mice, snakes or rodents are present.
- RCT(s) shall support the sampling to expedite sample release, offsite shipping and analysis.

Prior to the sampling conduct a Pre-Job briefing. Review:

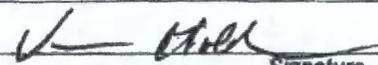
- Emergency response actions
- General hazard analysis
- PPE and Work Practices
- Adverse weather precautions
- Sampling waste disposal

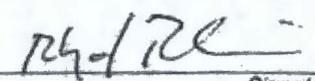
**Sample Analysis:**

- Beryllium is only analyte  
 Other metals required with beryllium (list metals):

Special analysis required (provide details):

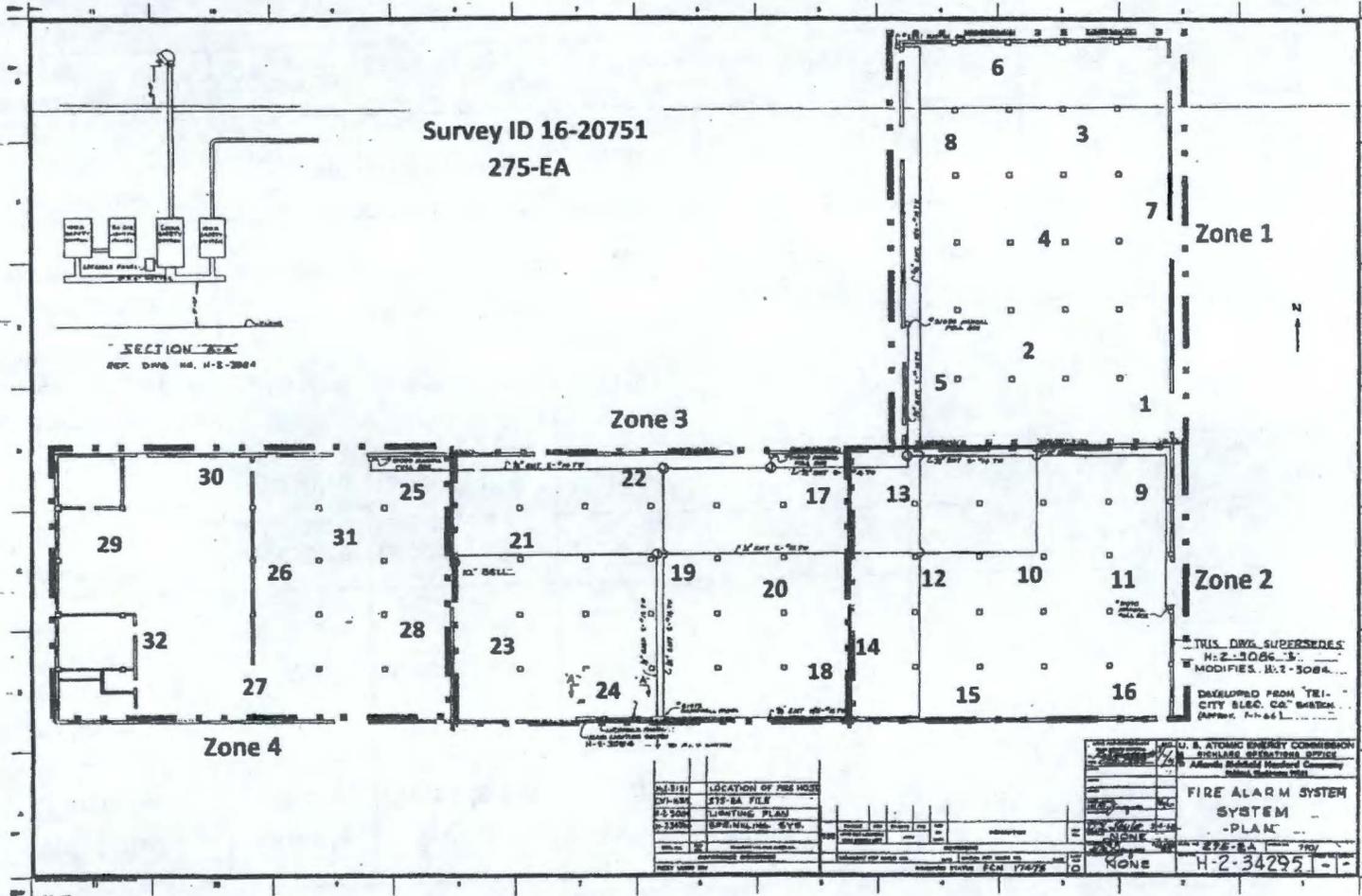
Comments/Deviations

VFW Holder CIA CSP ARN

4/14/2016  
 Prepared By: Print Name Signature Date

Rost J Robinson

14 APRIL 2016  
 Approved By: Print Name Signature Date



APPENDIX B





CH2M HILL Plateau Remediation Company

**Beryllium Characterization  
Bulk Sample Results**

275EA /200E

April 20, 2016

Appendix C

Job Title/ Location	Sample Date	SWIHD Sample No.	Sample Type	Hanford Site Limit	Result	Unit	Greater Than Limit
Modine Heater front grille in SE Corner of Zone 1 - (North Fire Division)	4/20/2016	16-20751-001	Bulk	2.0	0.97	ug/g	no
Floor near south end of Zone 1	4/20/2016	16-20751-002	Bulk	2.0	0.71	ug/g	no
Floor near NE corner of Zone 1	4/20/2016	16-20751-003	Bulk	2.0	0.81	ug/g	no
Top of disconnect and lighting panel near SW corner of Zone 1	4/20/2016	16-20751-005	Bulk	2.0	0.75	ug/g	no
Horizontal surface along north wall in Zone 1	4/20/2016	16-20751-006	Bulk	2.0	0.87	ug/g	no
Horizontal surface of 2 x 4 along east wall in Zone 1	4/20/2016	16-20751-007	Bulk	2.0	0.74	ug/g	no
Floor near NW corner of Zone 1	4/20/2016	16-20751-008	Bulk	2.0	0.74	ug/g	no

Facility Status Change Form for 275EA  
ATTACHMENT 2

Job Title/ Location	Sample Date	SWIHD Sample No.	Sample Type	Hanford Site Limit	Result	Unit	Greater Than Limit
Modine Heater front grille in NE Corner of Zone 2 - (Southeast Fire Division)	4/20/2016	16-20751-009	Bulk	2.0	0.88	ug/g	no
Top of light in center of Zone 2	4/20/2016	16-20751-010	Bulk	2.0	0.93	ug/g	no
Floor in front of roll-up door on east side in Zone 2	4/20/2016	16-20751-011	Bulk	2.0	0.72	ug/g	no
Floor near west side of Zone 2	4/20/2016	16-20751-012	Bulk	2.0	0.56	ug/g	no
Floor along north wall in NW corner of Zone 2	4/20/2016	16-20751-013	Bulk	2.0	0.58	ug/g	no
Storage rack on west wall in Zone 2	4/20/2016	16-20751-014	Bulk	2.0	0.78	ug/g	no
Floor sill plate on south wall in Zone 2	4/20/2016	16-20751-015	Bulk	2.0	0.78	ug/g	no
Horizontal surface on 2 x 4s near SE corner of Zone 2	4/20/2016	16-20751-016	Bulk	2.0	0.72	ug/g	no
Shelves inside cabinet in NE corner of Zone 3 - (Center Fire Division)	4/20/2016	16-20751-017	Bulk	2.0	0.84	ug/g	no
Modine Heater front grille in SE Corner of Zone 3	4/20/2016	16-20751-018	Bulk	2.0	0.82	ug/g	no

Job Title/ Location	Sample Date	SWIHD Sample No.	Sample Type	Hanford Site Limit	Result	Unit	Greater Than Limit
Top center of fire sprinkler water main that runs from south to north in Zone 3	4/20/2016	16-20751-019	Bulk	2.0	0.7	ug/g	no
Floor on east side of Zone 3	4/20/2016	16-20751-020	Bulk	2.0	0.92	ug/g	no
Floor near NW corner of Zone 3	4/20/2016	16-20751-021	Bulk	2.0	0.6	ug/g	no
Floor sill plate on north wall in Zone 3	4/20/2016	16-20751-022	Bulk	2.0	0.5	ug/g	no
Floor near NW corner of Zone 3	4/20/2016	16-20751-023	Bulk	2.0	0.57	ug/g	no
Top of gutter/wireway under electrical panelboxes on south wall in Zone 3	4/20/2016	16-20751-024	Bulk	2.0	0.62	ug/g	no
Dunham-Bush Heater front grille in NE Corner of Zone 4	4/20/2016	16-20751-025	Bulk	2.0	0.81	ug/g	no
Top of structural wood beam and supports on north side of Zone 4 - (West Fire Division)	4/20/2016	16-20751-026	Bulk	2.0	0.76	ug/g	no
Floor sill plates along south wall in Zone 4	4/20/2016	16-20751-027	Bulk	2.0	0.58	ug/g	no

<b>Job Title/ Location</b>	<b>Sample Date</b>	<b>SWIHD Sample No.</b>	<b>Sample Type</b>	<b>Hanford Site Limit</b>	<b>Result</b>	<b>Unit</b>	<b>Greater Than Limit</b>
Structural wood beam on east wall in Zone 4	4/20/2016	16-20751-028	Bulk	2.0	0.55	ug/g	no
Floor near NW corner of Zone 4	4/20/2016	16-20751-029	Bulk	2.0	0.72	ug/g	no
Floor sill plates on north wall in Zone 4	4/20/2016	16-20751-030	Bulk	2.0	0.53	ug/g	no
Floor near NE corner of Zone 4	4/20/2016	16-20751-031	Bulk	2.0	0.67	ug/g	no
Floor and sill plate of wall outside restrooms in SW corner of Zone 4	4/20/2016	16-20751-032	Bulk	2.0	0.65	ug/g	no

Photograph 1



Front grille of ceiling mounted heater (16-20751-001 sample) 0.97 ug/g – highest beryllium concentration

Photograph 2



Top of disconnect and lighting panel (16-20751-005 sample) 0.75 ug/g

Photograph 3



Horizontal surface on north wall for unknown usage (16-20751-006 sample) 0.87 ug/g

Photograph 4



Storage rack on west wall for unknown usage (16-20751-014 sample) 0.78 ug/g

Photograph 5



Shelves inside storage cabinet for unknown items (16-20751-017 sample) 0.84 ug/g

Photograph 6



Gutter/wireway below electrical panel boxes on south wall (16-20751-024 sample) 0.62 ug/g

Photograph 7



Floor sill plate on south wall (16-20751-027 sample) 0.58 ug/g

Photograph 8



Structural wood beam on east wall (16-20751-028 sample) 0.55 ug/g

Photograph 9



Floor in NE Corner (16-20751-002 sample) 0.71 ug/g

Photograph 10



Top of light in east side (16-20751-010 sample) 0.93 ug/g

**CH2MHILL**  
Plateau Remediation Company

**INTEROFFICE MEMORANDUM**

CHPRC-1602143

**Date:** May 9, 2016

**To:** D. R. Coriell, Director, Central Plateau Surveillance & Maintenance  
B. A. Prichard, Project Manager, Decommissioning & Remediation Project

**From:** L. M. Dittmer, Subject Matter Expert, NEPA/SEPA/Cultural/Ecological  
D. R. Turlington, Environmental Compliance Officer, Central Plateau Surveillance & Maintenance

**Subject:** CULTURAL AND ECOLOGICAL REVIEW FOR THE DEMOLITION OF 275EA WAREHOUSE BUILDING AND UTILITY ISOLATION

**Reference:** Letter, A. L. Johnson, MSA, to L. M. Dittmer, CHPRC, "Ecological and Cultural Clearance for Confirmation Sampling of the LLBG FS-1 Outdoor Container Storage Area, 200 West Area, Hanford Site, (HCRC#88-200-038, BCR-2015-243), MSA-1501895/CHPRC, dated April 28, 2015.

*med 5/9/2016  
drt 5/9/16*

The scope of this project includes demolition and removal of the 275EA Warehouse Building in the 200 East Area of the Hanford site. This building is located in a highly disturbed area, and all work will take place above grade with the exception of minor excavation for utility isolation that will not expand beyond the original excavation that was completed to install the utility lines. These are shallow, small diameter lines that will require minimal excavation to locate and isolate. Due to the highly disturbed nature of this area, the subsurface that will be excavated consists of fill material from the original installation of the utility lines. Therefore, cultural artifacts or items of historical interest are not expected in this location. Any unexpected items that might be discovered would have been placed in this location during the backfill following installation of the water line; hence, workers shall be instructed to be aware of this potential during the excavation.

This memorandum documents a review for compliance with Plateau Remediation Contract requirements for the following:

- The ecological resources evaluation conducted by the Environmental Compliance Officer (ECO);
- Provides the required instructions to staff who will be performing the work, for awareness of the need to protect cultural/historic artifacts and migratory birds, as well as the required response should these items be identified during the performance of the project; and
- Documentation that the scope of the action is covered by reviews that have been completed under Section 106 of the National Historic Preservation Act of 1966, As Amended (Section 106) to satisfy the cultural resource review requirement.

This conclusion is consistent with the Ecological and Cultural Clearance for Sampling at the LLBG FS-1 Storage Area in 200 West (reference).

D. R. Corriell  
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CHPRC-1602143

### Cultural Evaluation

The cultural review number for this is HCRC #88-200-038, based on the following:

In 1990, a Cultural Resources Review was conducted for Hanford Site operations and cleanup activities within the 200 East and 200 West Areas. The Archaeological Survey of the 200 East and 200 West Areas, Hanford Site, Washington (HCRC#88-200-038) considered potential impacts to historic properties from Hanford operations within the 200 Areas (Chatters and Cadoret 1990). The finding reached is that no historic properties would be impacted as a result of on-going operations and cleanup within the 200 East Area, and that no additional Section 106 reviews are necessary to maintain this finding (Chatters and Cadoret 1990). Because Section 106 requirements have been previously met, no additional review of the project is required.

There is no evidence in this area of historic use/occupation, or areas of cultural importance on or near the site. Extensive disturbance of this area during the installation of water lines and other utilities, as well as nearby structures, has left no material evidence of a historic nature that could be observed at the work site.

DOE/RL-96-77, *Programmatic Agreement Among the U.S. Department of Energy, Richland Operations Office, the Advisory Council on Historic Preservation, and the Washington State Historic Preservation Office for the Maintenance, Deactivation, Alteration, and Demolition of the Built Environment on the Hanford Site, Washington (PA)*, addresses the built environment constructed during the Manhattan Project and Cold War Era periods of Hanford's operational history, encompassing the years 1943 through 1990. The PA directed that a Sitewide Treatment Plan be developed to identify, inventory, and evaluate all undertakings which may affect historic buildings and structures on the Hanford Site, and identifies those that require mitigation measures to preserve historic, architectural, and technological values.

RL, in consult with the Advisory Council on Historic Preservation and the State Historic Preservation Office (SHPO), developed DOE/RL-97-56, *Hanford Site Manhattan Project and Cold War Era Historic District Treatment Plan (Sitewide Treatment Plan)* to preserve the history of the site. The Sitewide Treatment Plan lists representative buildings and structures that require mitigation (identification, removal, preservation of historically significant artifacts). The Sitewide Treatment Plan only covers the historic preservation procedures for the buildings/structures themselves, and 275EA is on the *Contributing Properties with No Individual Documentation Requirement* list. Therefore, this building is not included in the Sitewide Treatment Plan as a candidate for mitigation. The PA stipulates, in Section IV.F.; "For those properties for which no mitigation is required under the Sitewide Treatment Plan, RL and SHPO agree that no further communication or notification is necessary."

D. R. Corriell  
Page 3  
May 9, 2016

CHPRC-1602143

Prior to initiation of this project, all project staff will be trained to be aware of potential cultural or historical artifacts that may be encountered, and the following language will be included in the project work package:

If any cultural materials, including but not limited to stone tools, flakes, bones, shells, bottles, subsurface foundations, are discovered during the demolition of 275EA and associated utility isolation, work in the vicinity of the discovery shall cease, and workers will contact the project ECO. The ECO will contact a cultural resource professional (e.g., archaeologist, historian), who will assess the significance of the find, and if necessary, arrange for the mitigation of the find.

Any required mitigation will take place in accordance with the Sitewide Treatment Plan and stipulation IV.D of the Programmatic Agreement.

This clearance was discussed with Ray Swenson and Rick Engelmann, and they agree that it is appropriate to use HCRC#88-200-038 as the cultural clearance for this work.

**Ecological Resources Evaluation - 275EA Warehouse Building in the 200 East Area Work Location**

CHPRC Environmental staff performed a pedestrian survey of the 200 East 275EA Warehouse Building on March 24, 2016 and on March 29, 2016. The entirety of area surrounding the building consists of a severely disturbed location that has been excavated and backfilled with construction grade fill/gravel. The location lies just to the north of the PUREX 202A Facility on 4<sup>th</sup> Street. There is significant and complete disturbance of all soils surrounding this structure as a result of its original construction and the grading of all portions of the property in which it lies.

Regular and periodic maintenance of this industrial setting includes vegetation control via herbicide application by MSA. Therefore, the entire Area of Concern is void of vegetation. No plant or animal species protected under the Endangered Species Act, candidates for such protection, or species listed by the Washington State government as threatened or endangered were observed in the vicinity of the proposed project site.

There is always the potential for birds to nest within the project area on the ground, on buildings, or equipment. The nesting season in our area is typically from mid-March to mid-July. The active nests (containing eggs or young) of migratory birds are protected by the Migratory Bird Treaty Act (MBTA) of 1918. The MBTA makes it illegal for people to "take" migratory birds, their eggs, feathers, or nests. Take is defined in the MBTA to include by any means or in any manner, any attempt at hunting, pursuing, wounding, killing, possessing, or transporting any migratory bird, nest, egg, or part thereof. **Personnel working on this project must be instructed to watch for all nesting birds.** Prior to initiation of this project, all project staff will be trained, and the following language will be included in the project work package:

Personnel working on this project must watch for nesting birds. If any nesting birds (if not a nest, a pair of birds of the same species or a single bird that will not leave the area when disturbed) are encountered or suspected, or bird defensive behaviors (flying at workers, refusal to leave area, strident vocalizations) are observed within the project area, pause work and contact the project ECO to evaluate the situation.

D. R. Corriell  
Page 4  
May 9, 2016

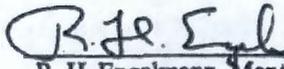
CHPRC-1602143

Please note that the D4 work at this location will be performed during the month of May 2016. Therefore, the concern over birds and/or nesting is high. Periodic inspections of staged equipment and observation of the building in the days and weeks before any D4 work is strongly recommended.

A site walkdown performed by an ECO is required immediately prior to the commencement of asbestos removal and/or demolition supporting D4 work activities to evaluate the work site for environmental concerns.

No adverse impacts are anticipated from the proposed projects if these recommendations are followed.

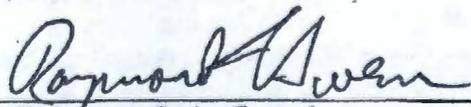
Provided as an attachment to this memorandum are four photos showing the surrounding area of the 275EA Warehouse Building, as well as a building footprint area (BFA) of the building.

  
\_\_\_\_\_  
R. H. Engelmann, Manager  
Technical Services, Environmental Protection  
Environmental Program & Strategic Planning

9 May, 2016  
Date

  
\_\_\_\_\_  
B. J. Dixon, Director  
Environmental Compliance  
K Basin Operations & Plateau Remediation

9 May 2016  
Date

  
\_\_\_\_\_  
R. T. Swenson, Senior Counsel  
General Counsel

May 9, 2016  
Date

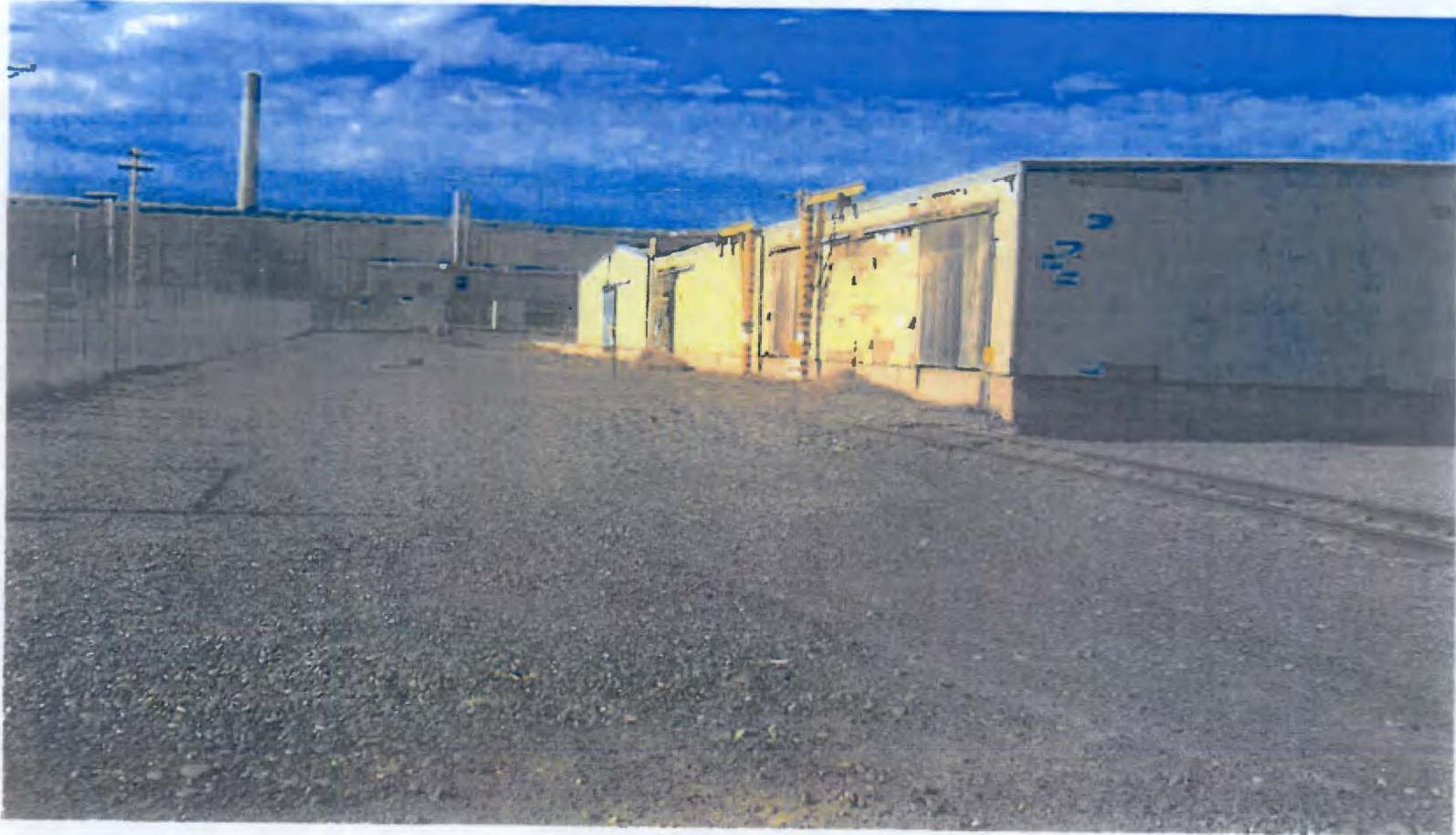
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Attachment

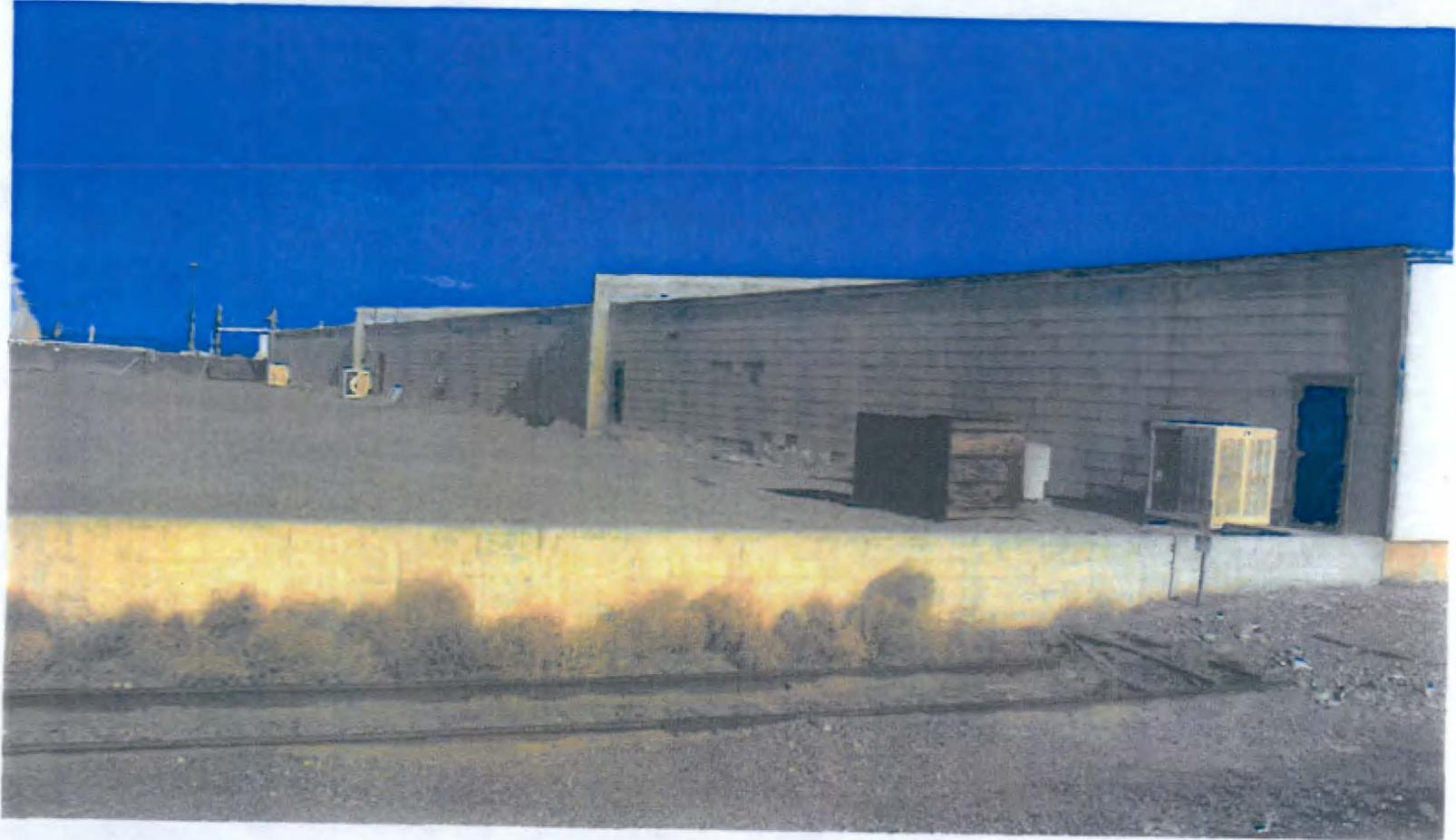
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L. J. Cusack, H8-45  
B. H. Dixon, X4-01  
R. H. Engelmann, H8-45  
R. E. Fox, T4-09  
M. N. Jaraysi, H8-43  
R. T. Swenson, H8-66  
E. D. Trotta, H8-66



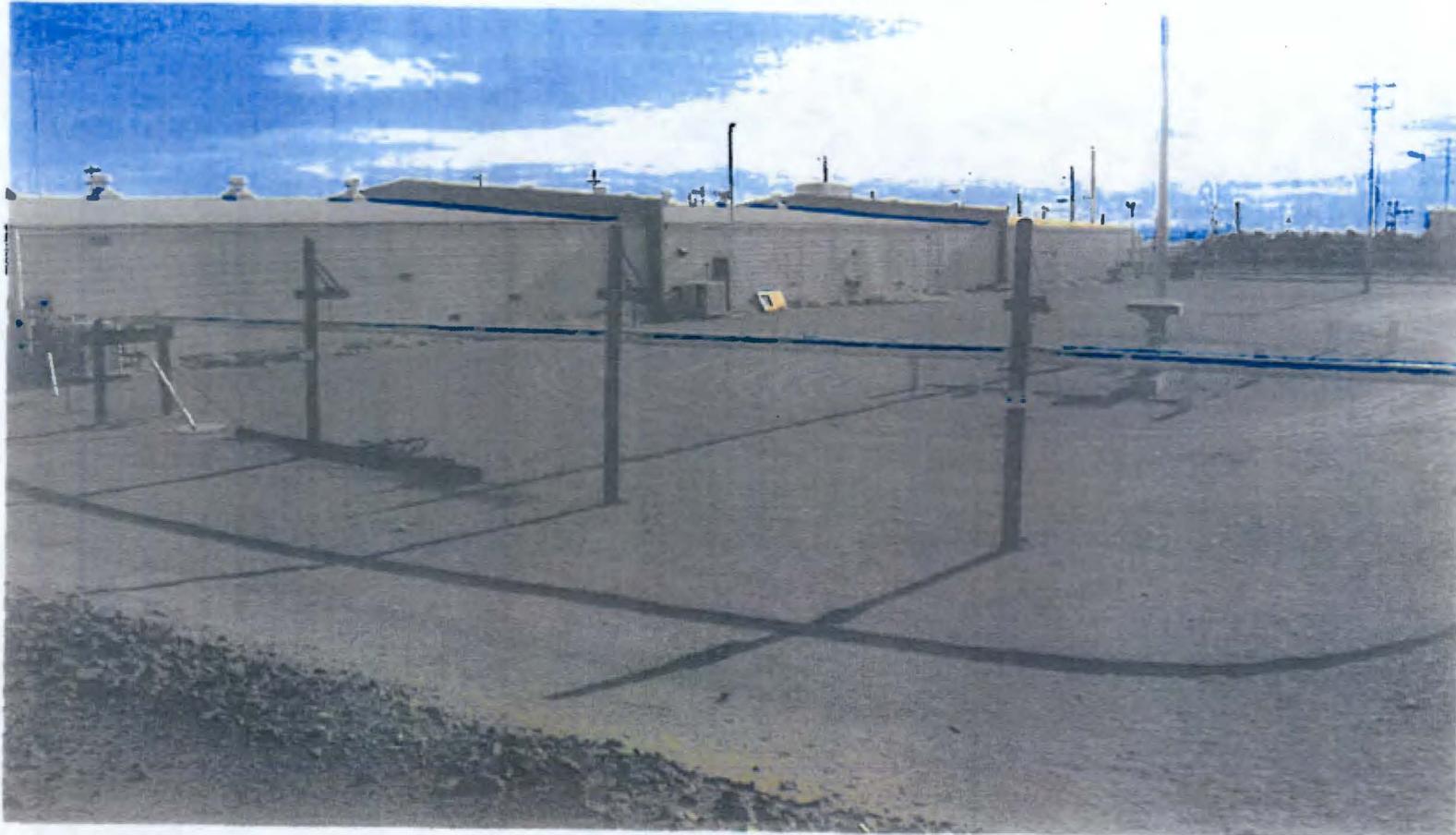
275EA Warehouse North



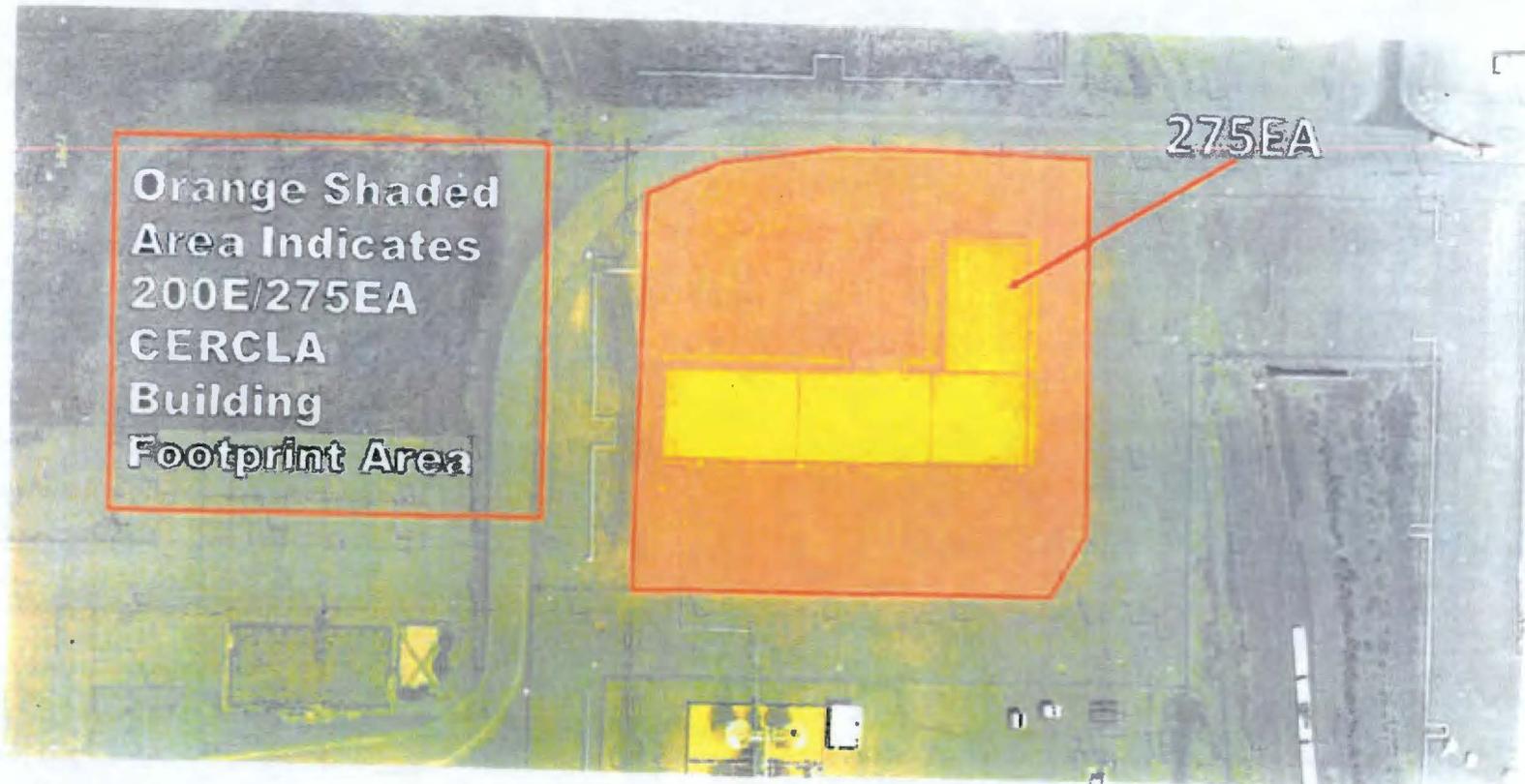
275EA Warehouse East



275EA Warehouse South



275EA Warehouse South 2



275EA CERCLA BFA Map R1 033016

<b>CH2M HILL PLATEAU REMEDIATION COMPANY RADIOLOGICAL SURVEY REPORT (Submitted for Approval)</b>			<b>RSR No. RC-1601334</b>	Page 1 of 6
Date 10/25/2016	Start/Stop Time 1300/1400	Area/Location 200E / 275EA / 275EA Concrete pad		RWP/Rev. N/A
Purpose of Survey: <input type="checkbox"/> Material Clearance Number: N/A Cleared to: N/A <input type="checkbox"/> Ram Shipment: N/A <input type="checkbox"/> Required Task: N/A <input type="checkbox"/> Job Coverage: N/A <input type="checkbox"/> Verification survey $\alpha = <D$ <D=No Increase in audible count rate <b>N/A</b> Inches/Sec. <b>N/A</b> Inches Away <b>N/A</b> Count Time (Sec.) <b>N/A</b> % Surveyed <b>N/A</b> # of Static Counts <b>N/A</b> Square Feet <input type="checkbox"/> Verification survey $\beta\gamma = <D$ <D=No increase in audible count rate <b>N/A</b> Inches/Sec. <b>N/A</b> Inches Away <b>N/A</b> Count Time (Sec.) <b>N/A</b> % Surveyed <b>N/A</b> # of Static Counts <b>N/A</b> Square Feet <input checked="" type="checkbox"/> Other: good rad practices post demo survey		Description of Work: Survey of concrete pad at 275EA post demo  Comments: Performed post demo survey of concrete pad at 275EA to verify no contamination was encountered / exposed from demo activities.  Areas of concrete pad with rainwater puddles were not surveyed.  No contamination was encountered above table 2-2 levels.		

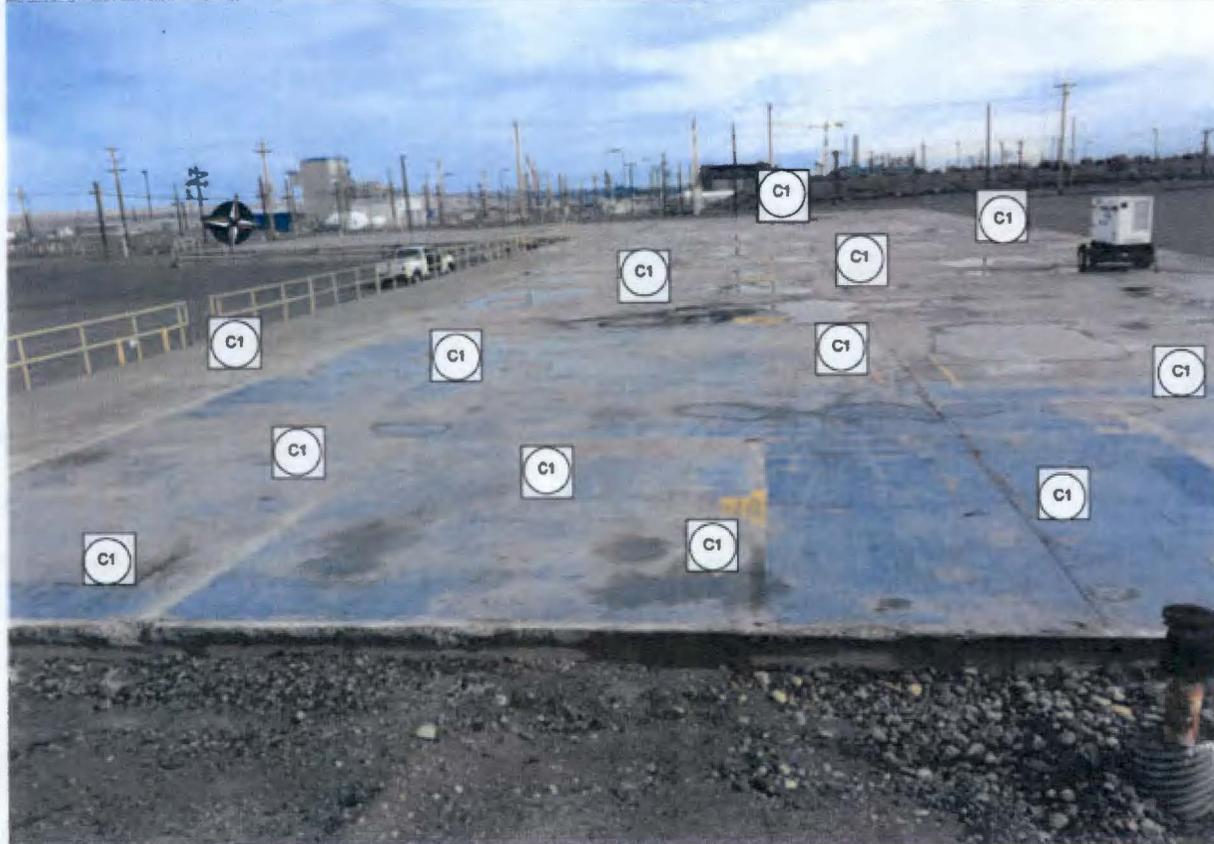
Facility Status Change Form for 275EA  
ATTACHMENT 4

<b>CH2M HILL PLATEAU REMEDIATION COMPANY</b>						<b>RSR No.</b>				Page 2 of 6				
<b>RADIOLOGICAL SURVEY REPORT(Submitted for Approval)</b>						RC-1601334								
<b>Contamination Measurements</b>														
* Manually Calculated by RCT														
		Background cpm		Direct Gross cpm/100 cm <sup>2</sup>		Total dpm/100 cm <sup>2</sup>		Correction Factor		Removable				
										Type	Gross (cpm)		dpm/100 cm <sup>2</sup>	
No.	Description	$\beta\gamma$	$\alpha$	$\beta\gamma$	$\alpha$	$\beta\gamma$	$\alpha$	$\beta\gamma$	$\alpha$					
C1	Concrete pad (highest found)	265	3	310	4	450	10	10	10	Smear	286	3	210	<20

**CH2M HILL PLATEAU REMEDIATION COMPANY  
RADIOLOGICAL SURVEY REPORT (Submitted for Approval)**

**RSR No.  
RC-1601334**

**Map/Sketch**



**Map Name: 275EA Pad**

**Map Description: survey**

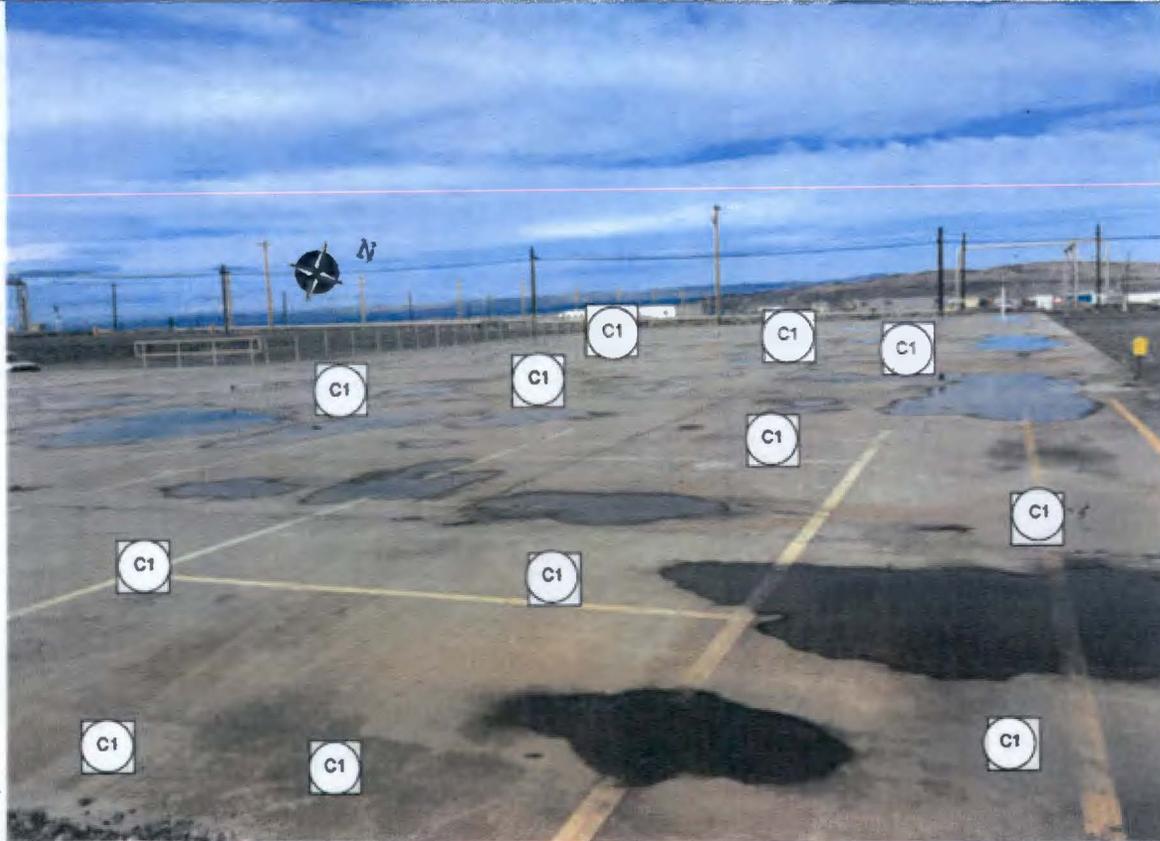
<b>Legend</b>	Direct Measurement	Air Sample	Smear	LAW	Neutron Dose Rate	Transferability	Field	Contact	Other Distance	Other Measurement
	#	A#	#	L#	#	T#	F#	C#	D#	O#
----- (designation inside) ----- Radiological Area Boundary								Note: Dose Rates in mrem/hr unless otherwise noted.		

Facility Status Change Form for 275EA ATTACHMENT 4

**CH2M HILL PLATEAU REMEDIATION COMPANY  
RADIOLOGICAL SURVEY REPORT (Submitted for Approval)**

**RSR No.**  
RC-1601334

**Map/Sketch**



**Map Name: 275EA**

**Map Description: Concrete pad**

<b>Legend</b>	Direct Measurement	Air Sample	Smear	LAW	Neutron Dose Rate	Transferability	Field	Contact	Other Distance	Other Measurement
	#	▲	⊕	L#	⊛	T#	F#	C#	D#	O#
----- (designation inside) ----- Radiological Area Boundary								Note: Dose Rates in mrem/hr unless otherwise noted.		

Facility Status Change Form for 275EA  
ATTACHMENT 4

**\*\* Electronically Approved – RC-1601334 on 10/27/2016 \*\*:**

<b>CH2M HILL PLATEAU REMEDIATION COMPANY RADIOLOGICAL SURVEY REPORT(Submitted for Approval)</b>		<b>RSR No. RC-1601334</b>	Page 5 of 6	
<b>Instruments</b>				
Instrument Type	Bar Code No.	Probe Bar Code No.	Efficiency (Used)	Due Date
LUDLUM 2360 / 43-93	SCLL8-0429	DTLLP-0536	β0.1/α0.1	09/20/2017
<b>Unless stated otherwise in the "Comments" section, contamination levels for C-14, Fe-55, NI-59, NI-63, Se-79, Tc-99, Pd-107, and Eu-155 are &lt;= 10 times the b-g contamination levels shown above (see CHPRC-00073, Table 2-2).</b>				
<b>History</b>				
10/26/2016 6:14:33 AM - Hanley , Seamus - Submitted: 10/27/2016 10:18:08 AM - BIGGS , DANIEL - Final Approval:				

Facility Status Change Form for 275EA  
ATTACHMENT 4

Date Submitted: 10/26/2016

A-6004-663-SS (Rev. 4)

**\*\* Electronically Approved – RC-1601334 on 10/27/2016 \*\*:**

User: Hanley, Seamus (h7757875)  
Title: Owner  
Date: Wednesday, October 26, 2016, 6:14 AM Pacific Standard Time  
=====

User: BIGGS, DANIEL (h6820981)  
Title: Reviewer  
Date: 10/27/2016 10:18:08 AM Pacific Standard Time  
=====

**Turlington, Daniel R**

---

**From:** Faulk, Dennis <Faulk.Dennis@epa.gov>  
**Sent:** Friday, June 24, 2016 7:56 AM  
**To:** Toebe, Wayne E  
**Cc:** Guzzetti, Christopher; McKenney, Dale E; Turlington, Daniel R; Prichard, Earl A; Karschnia, Paul T; Farabee, Oliver A (AI); Faust, Eric T; Long, Robert L Jr; Woolery, Wade C; Corriell, Darin R; Collins, Michael S  
**Subject:** Re: PLANNED DEMOLITION WITH CATEGORY 1 NONFRIABLE ACM IN PLACE

All

EPA has reviewed the information below and concur with the way the project plans to handle the asbestos and asbestos containing materials.

Dennis

Sent from my iPhone

On Jun 23, 2016, at 5:22 PM, Toebe, Wayne E <[Wayne\\_E\\_Toebe@rl.gov](mailto:Wayne_E_Toebe@rl.gov)> wrote:

Please see minor corrections highlighted below. Thank you!

**From:** Toebe, Wayne E  
**Sent:** Thursday, June 23, 2016 3:37 PM  
**To:** Guzzetti, Christopher ([Guzzetti.Christopher@epa.gov](mailto:Guzzetti.Christopher@epa.gov)) <[Guzzetti.Christopher@epa.gov](mailto:Guzzetti.Christopher@epa.gov)>; Faulk, Dennis (EPA) <[faulk.dennis@epa.gov](mailto:faulk.dennis@epa.gov)>  
**Cc:** McKenney, Dale E <[Dale\\_E\\_McKenney@rl.gov](mailto:Dale_E_McKenney@rl.gov)>; Turlington, Daniel R <[Daniel\\_R\\_Turlington@rl.gov](mailto:Daniel_R_Turlington@rl.gov)>; Prichard, Earl A <[Earl\\_A\\_Prichard@rl.gov](mailto:Earl_A_Prichard@rl.gov)>; Karschnia, Paul T <[Paul\\_T\\_Karschnia@rl.gov](mailto:Paul_T_Karschnia@rl.gov)>; Farabee, Oliver A (AI) <[oliver.farabee@rl.doe.gov](mailto:oliver.farabee@rl.doe.gov)>; Faust, Eric T <[Eric.Faust@rl.doe.gov](mailto:Eric.Faust@rl.doe.gov)>; Long, Robert L Jr <[robert.long@rl.doe.gov](mailto:robert.long@rl.doe.gov)>; Woolery, Wade C <[wade.woolery@rl.doe.gov](mailto:wade.woolery@rl.doe.gov)>; Corriell, Darin R <[Darin\\_R\\_Corriell@rl.gov](mailto:Darin_R_Corriell@rl.gov)>; Collins, Michael S <[michael.collins@rl.doe.gov](mailto:michael.collins@rl.doe.gov)>  
**Subject:** PLANNED DEMOLITION WITH CATEGORY 1 NONFRIABLE ACM IN PLACE

Hello Chris and Dennis,

Please see the summary information below regarding upcoming demolition work at 275-EA. We have identified Category I and ~~Category II~~ nonfriable ACMs through inspection that we would like to leave in place during the work.

At this time, we are requesting concurrence from EPA that the Category I nonfriable ACMs will not be rendered friable by the planned demolition approach for the facility ~~three facilities~~ identified below. The demolition controls have been developed to ensure that Category I nonfriable ACMs will not be rendered friable by the methods applied.

**275-EA:** This building was built in 1944, is 24 feet tall and covers an area of approximately 41,000 square feet. The facility is a wood frame structure that is divided into 4 fire areas with concrete block walls separating each fire area. All 4 areas were used as a general purpose warehouse. The building also contained a restroom, mechanical room, office area, and a "caged storage area." The majority of ACMs have been, or will be, removed from the structure prior to commencing demolition. Certain Category I nonfriable ACMs and 3 fire doors will remain in the facility during demolition as discussed below.

The building contains approximately 123 ft<sup>2</sup> of mastic on flashing at the base of the building and approximately 150 ft<sup>2</sup> of mastic on the roof at the firewall(s) for a total of approximately 273 ft<sup>2</sup> of mastic in good condition suspected to contain Category I nonfriable ACM. The building also contains approximately 15 ft<sup>2</sup> of gaskets/packing in good condition located in fire sprinkler riser and building water supply line flanges suspected to contain Category I nonfriable ACMs. The building also contains caulking around exterior doors and on roof trim totaling <100 ft<sup>2</sup> containing Category I nonfriable ACM in good condition. The project plans to leave these Category I nonfriable ACMs in place during demolition. The building also contains 3 large interior fire doors (12 feet by 12 feet) that are presumed to contain asbestos. These doors will be removed intact during demolition to avoid disturbing the potential ACM and will be disposed as ACM.

The 275-EA demolition activities and associated waste handling activities such as segregation, consolidation, and reduction will not include any sanding, grinding, cutting, or abrading of ACM. Water with surfactant will be used during the demolition and waste handling processes to keep dirt and dust down. Demolition activities will be conducted using an excavator to pull the structure down. Reduction of the building by the excavator will be minimized to the extent needed to load the material safely for transport. Fixatives will be used on asbestos-containing waste materials that remain overnight at the demolition site.

We would be glad to come to your office to discuss these planned building demolitions and the associated Category I ACM and fire doors if you would like.

Thank you,  
Wayne Toebe, CHPRC Environmental Protection  
521-0333

**FROM EPA-340-1-92-013, DEMOLITION PRACTICES UNDER THE ASBESTOS NESHAP:**

<image001.png>

.....

<image002.png>

.....