



## Department of Energy

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July 20, 2021

Mr. Brian Begley  
Federal Facility Agreement Manager  
Division of Waste Management  
Kentucky Department for Environmental Protection  
300 Sower Boulevard, 2nd Floor  
Frankfort, Kentucky 40601

PPPO-02-10011778-21

Mr. Victor Weeks  
Federal Facility Agreement Manager  
U.S. Environmental Protection Agency, Region 4  
61 Forsyth Street  
Atlanta, Georgia 30303

Dear Mr. Begley and Mr. Weeks:

### **TRANSMITTAL OF THE SITE EVALUATION REPORT FOR THE C-611-T BOOSTER PUMP STATION PLANT WATER AT THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY (DOE/LX/07-2464&D1)**

In accordance with Appendix 4 of the approved Site Management Plan (SMP) of the Paducah Federal Facility Agreement (FFA), the U.S. Department of Energy (DOE) is submitting the D1 *Site Evaluation Report for the C-611-T Booster Pump Station Plant Water at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2464&D1* (SE), to the U.S. Environmental Protection Agency (EPA) and the Kentucky Department for Environmental Protection (KDEP) for review and comment. A joint policy issued under the DOE and EPA memorandum, dated May 22, 1995, *Policy on Decommissioning Department of Energy Facilities Under CERCLA*, establishes a framework for conducting the decommissioning of DOE facilities and provides guidance on the use of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) response authority to decommission DOE facilities. This policy states that DOE is required to conduct a removal site evaluation, in accordance with the National Contingency Plan and interagency agreements (i.e., FFA) to assess site conditions and determine whether a release, or substantial threat of release, exists at the facility. DOE, EPA, and KDEP have agreed to conduct decontamination and decommissioning activities for those facilities that pose an environmental release threat at the Paducah Site under the existing FFA. Section IX, *Site Evaluation(s)*, of the FFA requires DOE to conduct integrated site evaluations that consist of the removal site evaluation, remedial site evaluation, and solid waste management unit (SWMU) assessment reports. These integrated site evaluations are to be documented in an SE report.

No information warranting the designation of C-611-T, or portions thereof, as a SWMU or area of concern was identified. As a result, the enclosed SE recommends that a CERCLA action for

the facility is not necessary for demolition of the C-611-T facility and that the facility will be removed outside of CERCLA. Upon approval, Appendix 4 of the SMP will be updated to indicate the date of the SE report and that a CERCLA non-time critical removal action is not required for this facility.

In accordance with Section XX of the FFA, EPA and KDEP have a 30-day review period to provide comments and/or approval of the document. If additional information is needed, please contact me at (270) 441-6862.

Sincerely,

Tracey L.  
Duncan

Digitally signed by Tracey  
L. Duncan  
Date: 2021.07.20  
08:35:28 -05'00'

Tracey Duncan  
Federal Facility Agreement Manager  
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. *Site Evaluation Report for the C-611-T Booster Pump Station Plant Water at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2464&D1*

Administrative Record File—ARF-ARR

cc w/enclosure:

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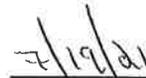
CERTIFICATION

**Document Identification:** *Site Evaluation Report for the C-611-T Booster Pump Station Plant Water at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, DOE/LX/07-2464&D1*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

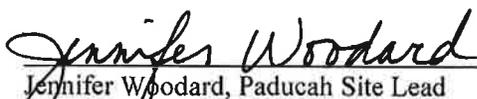
Four Rivers Nuclear Partnership, LLC

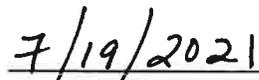
  
\_\_\_\_\_  
Myrna E. Redfield, Program Manager  
Four Rivers Nuclear Partnership, LLC

  
\_\_\_\_\_  
Date Signed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

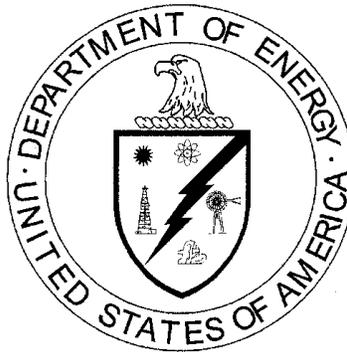
U.S. Department of Energy

  
\_\_\_\_\_  
Jennifer Woodard, Paducah Site Lead  
Portsmouth/Paducah Project Office  
U.S. Department of Energy

  
\_\_\_\_\_  
Date Signed

**DOE/LX/07-2464&D1  
Primary Document**

**Site Evaluation Report for the  
C-611-T Booster Pump Station Plant Water at the  
Paducah Gaseous Diffusion Plant,  
Paducah, Kentucky**



**CLEARED FOR PUBLIC RELEASE**



**DOE/LX/07-2464&D1  
Primary Document**

**Site Evaluation Report for the  
C-611-T Booster Pump Station Plant Water at the  
Paducah Gaseous Diffusion Plant,  
Paducah, Kentucky**

Date Issued—June 2021

U.S. DEPARTMENT OF ENERGY  
Office of Environmental Management

Prepared by  
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC,  
managing the  
Deactivation and Remediation Project at the  
Paducah Gaseous Diffusion Plant  
under Contract DE-EM0004895

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## ACRONYMS

ACM	asbestos-containing material
AOC	area of concern
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
D&D	decontamination and decommissioning
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FFA	Federal Facility Agreement
KPDES	Kentucky Pollutant Discharge Elimination System
NTCRA	non-time-critical removal action
OU	operable unit
RCRA	Resource Conservation and Recovery Act
SE	site evaluation
SMP	Site Management Plan
SWMU	solid waste management unit

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## **1. FACILITY/UNIT NUMBER**

C-611-T

## **2. FACILITY/UNIT NAME**

Booster Pump Station Plant Water

## **3. DATE**

June 2, 2021

## **4. REGULATORY STATUS**

A joint policy issued under a U.S. Department of Energy (DOE) and U.S. Environmental Protection Agency (EPA) Memorandum dated May 22, 1995, *Policy on Decommissioning Department of Energy Facilities Under CERCLA* (DOE 1995), establishes a framework for conducting decommissioning of DOE facilities and provides guidance on the use of Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) response authority to decommission DOE facilities. The Policy states that DOE is required to conduct a removal site evaluation (SE) in accordance with the *National Contingency Plan* and interagency agreements [i.e., Federal Facility Agreement (FFA)] to assess site conditions and determine whether a release or substantial threat of release exists at the facility. At any facility for which DOE conducts a removal site evaluation, DOE will consult with EPA and will provide, as requested, EPA with such information necessary for EPA to review such evaluation. DOE, EPA, and the Commonwealth of Kentucky have agreed to conduct decontamination and decommissioning (D&D) activities at the Paducah Gaseous Diffusion Plant under the existing FFA. Section IX [Site Evaluation(s)] of the FFA requires that DOE conduct integrated SEs that consist of the removal SE, remedial SE, and solid waste management unit (SWMU) assessment reports. The integrated SEs are to be documented in a site evaluation report consistent with the format within Appendix D of the FFA (EPA 1998).

Industrial facilities that DOE has determined to pose a potential threat of release of hazardous substances to the environment are listed as part of the facility D&D Operable Unit (OU) in Appendix 4 of the Site Management Plan (SMP) (DOE 2020). The SE report shall state whether demolition of the facility should be conducted using a CERCLA Non-Time-Critical Removal Action (NTCRA) and will serve to designate any facility, or portions thereof, that are related to any identified release as a SWMU and/or area of concern (AOC).

Based on the historical information associated with past operations at the C-611-T Booster Pump Station Water Plant (C-611-T), there is no evidence of a release, or threat of any release, to the environment from the building and C-611-T is not believed to pose a risk to human health or the environment. As a result, a CERCLA NTCRA action is not warranted for demolition of the C-611-T facility structure. Additionally, there is no historical information warranting the designation of C-611-T, or portions thereof, as a SWMU or AOC; therefore, a Resource Conservation and Recovery Act (RCRA) Facility Investigation is not recommended as necessary for C-611-T. As a result, the removal of the structure will be conducted outside of CERCLA.

## **5. LOCATION**

C-611-T is located in the southcentral portion of the industrialized area of the Paducah Site, approximately 215 ft south of the C-720 Maintenance and Storage Building. Figures 1 and 2 show the location of C-611-T within the Paducah Site.

## **6. APPROXIMATE DIMENSION OR CAPACITY**

C-611-T is a below grade, pit-type concrete structure approximately 10 ft deep (DOE 1993). The facility is constructed of reinforced concrete with an area of approximately 396 ft<sup>2</sup> on one floor. The booster station contains one 20,000-gal per minute booster pump on a 36-inch water line. Figure 3 provides a portion of Engineering Drawing E-S-11112-A showing the building floor plan. Figures 4 and 5 are photographs of the south and north exterior sides of the facility, respectively. Figure 6 is a photograph of the outer stairs leading to the booster station entrance. Figures 7 and 8 provide interior views of the plant water inlet valve and the ceiling in the southwest corner, respectively. Figure 9 shows a view of the exterior of the facility. Additional engineering drawings are provided in the appendix to this report.

## **7. FUNCTION**

C-611-T was used to boost plant water pressure within the plant water system. C-611-T is located south of the C-720 Maintenance and Storage Building and is connected to the south loop of the plant water system. The primary purpose for C-611-T was to boost plant water pressure if the plant was operating above 1,000 megawatts. The water distributed through C-611-T was never chromated. The facility is currently in standby mode. Supporting documentation is provided in the appendix to this report.

## **8. BRIEF HISTORY**

C-611-T was constructed in 1963 and was utilized as described above from construction until the cessation of uranium enrichment operations in 2013. C-611-T was leased to the United States Enrichment Corporation in the early 1990s until 2014 when the gaseous diffusion plant was deleased and returned to DOE . Since cessation of uranium enrichment operations, C-611-T has been in standby mode.

## **9. OPERATIONAL STATUS**

Standby

## **10. DATES OPERATED**

1963 to 2013

## **11. SITE/PROCESS DESCRIPTION**

C-611-T consists of one 20,000-gal per minute booster pump on a 36-inch water line connected to the south loop of the plant water system. The purpose of this booster pump station was to boost plant water pressure when the plant was operating above 1,000 megawatts . The facility is currently in standby mode. A sump pump is located within the facility and is currently checked daily by the deactivation and remediation contractor as part of the routine surveillance and maintenance/utilities operation program.

## **12. WASTE DESCRIPTION**

The primary waste stream that would be generated during D&D of C-611-T would be nonhazardous demolition debris. This demolition debris will be comprised primarily of concrete, metal piping, and insulation. Wastes such as polychlorinated biphenyl (PCB)-containing liquids and electrical components and/or RCRA mixed waste sludges or liquids, are not anticipated to be generated with the possible exceptions noted below.

Limited infrastructure items remain in the facility (e.g., electrical switches, motors) that could contain *de minimis* quantities of regulated items (e.g., lead, PCBs), which will be removed to the extent practicable during deactivation. Building materials used for construction could contain lead-based paints and asbestos-containing material (ACM). Generation of any residual amounts of these materials during demolition will be properly containerized, characterized, and dispositioned in accordance with applicable regulatory requirements.

### **13. WASTE QUANTITY**

Based on the waste forecast information available in the *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (DOE 2018), the waste volume associated with C-611-T is approximately 292 yd<sup>3</sup>. Demolition waste is assumed to be nonhazardous solid waste.

### **14. SUMMARY OF ENVIRONMENTAL SAMPLING DATA**

No sampling of environmental media has occurred near (within 50 ft) C-611-T (see Figure 10).

### **15. DESCRIPTION OF RELEASE AND MEDIA AFFECTED**

<u>Groundwater:</u>	None Known
<u>Surface Water:</u>	None Known
<u>Soil:</u>	None Known
<u>Ecology Affected</u> (i.e., threatened/endangered species):	None Known
<u>Air:</u>	None Known

There have been no known documented spills or releases of materials reported from this facility to the environment. The facility contains a sump and collected water is discharged to a surface ditch near the facility (see Figure 9) which ultimately discharges to Kentucky Pollutant Discharge Elimination System (KPDES) Outfall 009. During a March 2021 walkdown inspection, no evidence of oil leaks or visible staining on the floor was found. There was some standing water noted on the floor beneath the piping and valves. By virtue of the nature of past operations within the C-611-T building, and the equipment and materials contained therein, the building is not considered a potential risk to human health or to the environment.

### **16. DOCUMENTATION OF NO RELEASE**

There have been no known spills or releases of materials from C-611-T to soil, groundwater, or surface water. A sump pump in the facility discharges water to a surface ditch near the facility which ultimately discharges to KPDES Outfall 009. The C-611-T facility has not been identified as a SWMU or AOC, nor does it contain any areas designated as a SWMU or AOC. No information was identified warranting the designation of the C-611-T facility or portions thereof as a SWMU or AOC.

### **17. IMPACT ON OR BY OTHER SWMU/AOC**

There is no evidence that this facility impacts or is being impacted by other SWMUs and/or AOCs.

### **18. PRELIMINARY REMEDIATION GOAL COMPARISON**

Not Applicable. No sampling of environmental media has occurred near C-611-T.

## **19. RCRA FACILITY INVESTIGATION NECESSARY**

A RCRA Facility Investigation is not recommended as necessary for C-611-T. There is no evidence of a release, or threat of any release, to the environment from the building, and the facility is not believed to pose a risk to human health or the environment.

## **20. CERCLA NTCRA NECESSARY**

A CERCLA NTCRA is not recommended as necessary for demolition of C-611-T. Limited infrastructure items potentially containing *de minimis* quantities of regulated items remaining in the building will be removed, to the extent practicable, during deactivation. Building materials used for construction could contain lead-based paints and ACM, both of which can be verified effectively during a predemolition inspection, contained, and properly managed using standard demolition and waste management practices. Deactivation will include removal of any accessible loose items being stored (including the booster pump and associated piping), to the extent practicable, prior to demolition.

A March 2021 walkdown inspection of the facility, employee interviews, and other reviewed historical information did not identify any unusual conditions that would pose a potential threat of environmental release during future demolition of the structure; and therefore, the demolition and disposal of C-611-T can be conducted outside of the FFA/CERCLA process. While measures to be implemented during D&D are not a part of this SE, the demolition of C-611-T would identify any necessary best management practices to prevent and/or minimize contaminated storm-water runoff, and to prevent any debris from pooling and collecting in the below-grade pit-type concrete structure or any additional subgrade areas.

All applicable laws, regulations, and DOE procedures and/or protocols will be followed to ensure the demolition and disposal of the structure occurs in a safe, compliant manner, including conducting any additional radiological characterization through confirmation radiological surveys, as necessary, to support demolition and waste disposition.

## **21. OU ASSIGNMENT**

C-611-T currently is assigned to the Facility D&D OU, Sewage System and Water Treatment Ancillary Facilities (SMP Appendix 4) (DOE 2020); however, it should be noted that based on the SE recommendation to conduct the removal of the structure outside of CERCLA, C-611-T will be removed from the Facility D&D OU.

## **22. REFERENCES**

DOE (U.S. Department of Energy) 1993. *Report for Environmental Audit Supporting Transition of the Gaseous Diffusion Plants to the United States Enrichment Corporation, Appendix A Volume IV: Paducah Facilities Reports*, DOE/OR/1087&V5, June.

DOE 1995. *Policy on Decommissioning of Department of Energy Facilities Under CERCLA*, Joint policy from the U.S. Department of Energy and U.S. Environmental Protection Agency, May 22, 1995.

DOE 2018. *Remedial Investigation/Feasibility Study Report for CERCLA Waste Disposal Alternatives Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, DOE/LX/07-0244&D2/R2, U.S. Department of Energy, Paducah, KY, July.

DOE 2020. *Site Management Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2021*, DOE/LX/07-2450&D1, U.S. Department of Energy, Paducah, KY, November.

EPA (U.S. Environmental Protection Agency) 1998. *Federal Facility Agreement for the Paducah Gaseous Diffusion Plant*, DOE/OR/07-1707, U.S. Environmental Protection Agency, Atlanta, GA, February.



Figure 1. Aerial Photograph Showing the C-611-T Booster Pump Station Plant Water Location

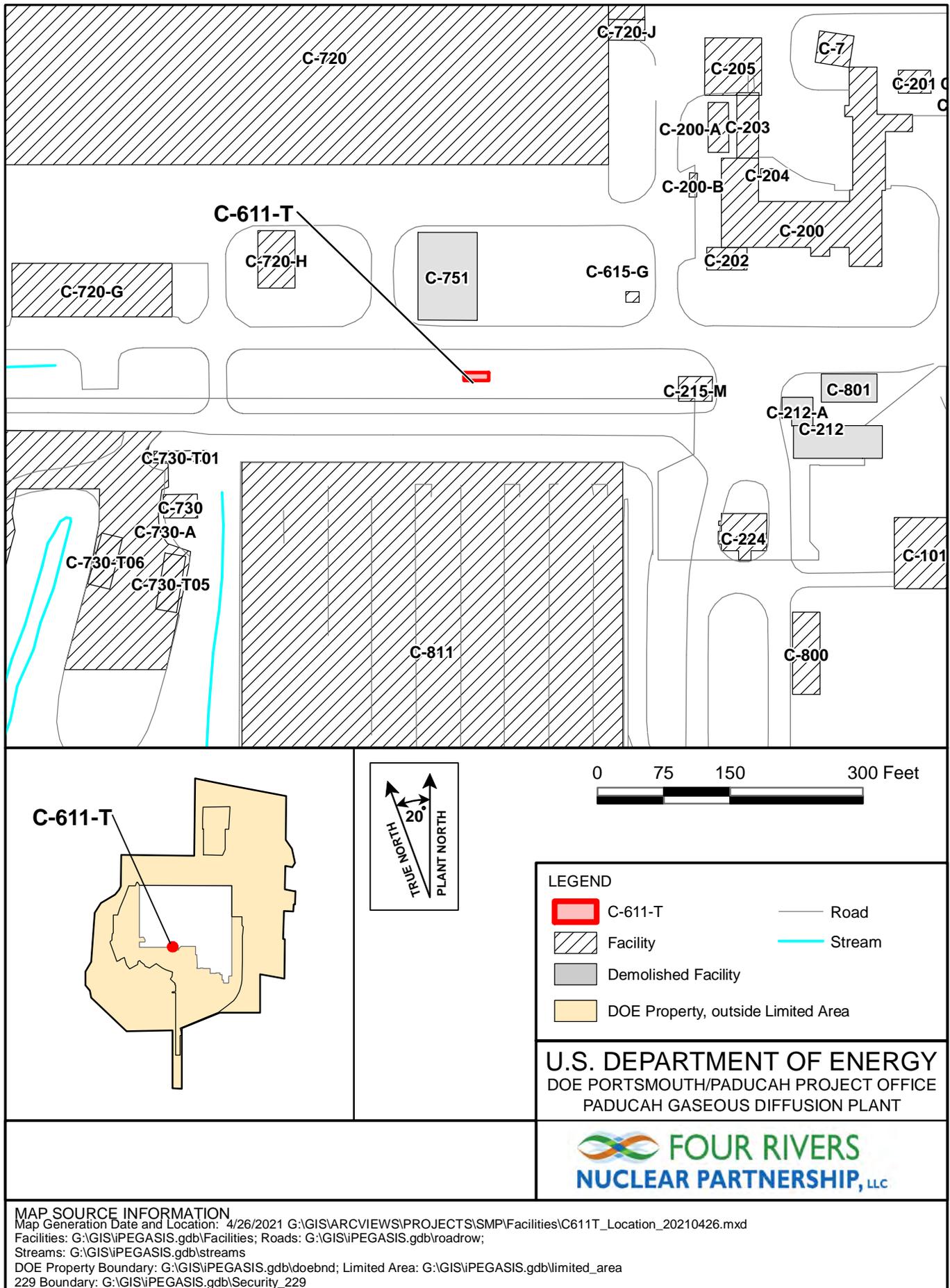


Figure 2. Map Showing the C-611-T Booster Pump Station Plant Water Location





**Figure 4. Exterior View of the C-611-T Booster Pump Station Plant Water (Looking Northwest)**



**Figure 5. Exterior View of the C-611-T Booster Pump Station Plant Water (Looking South)**



**Figure 6. Stairs Leading to the Booster Pump Station Plant Water Entrance**



**Figure 7. Interior View of C-611-T Showing the Plant Water Inlet Valve**



**Figure 8. Interior View of the Ceiling in the Southwest Corner**



**Figure 9. Standing Water in the Surface Ditch near the Sump Pump Discharge**

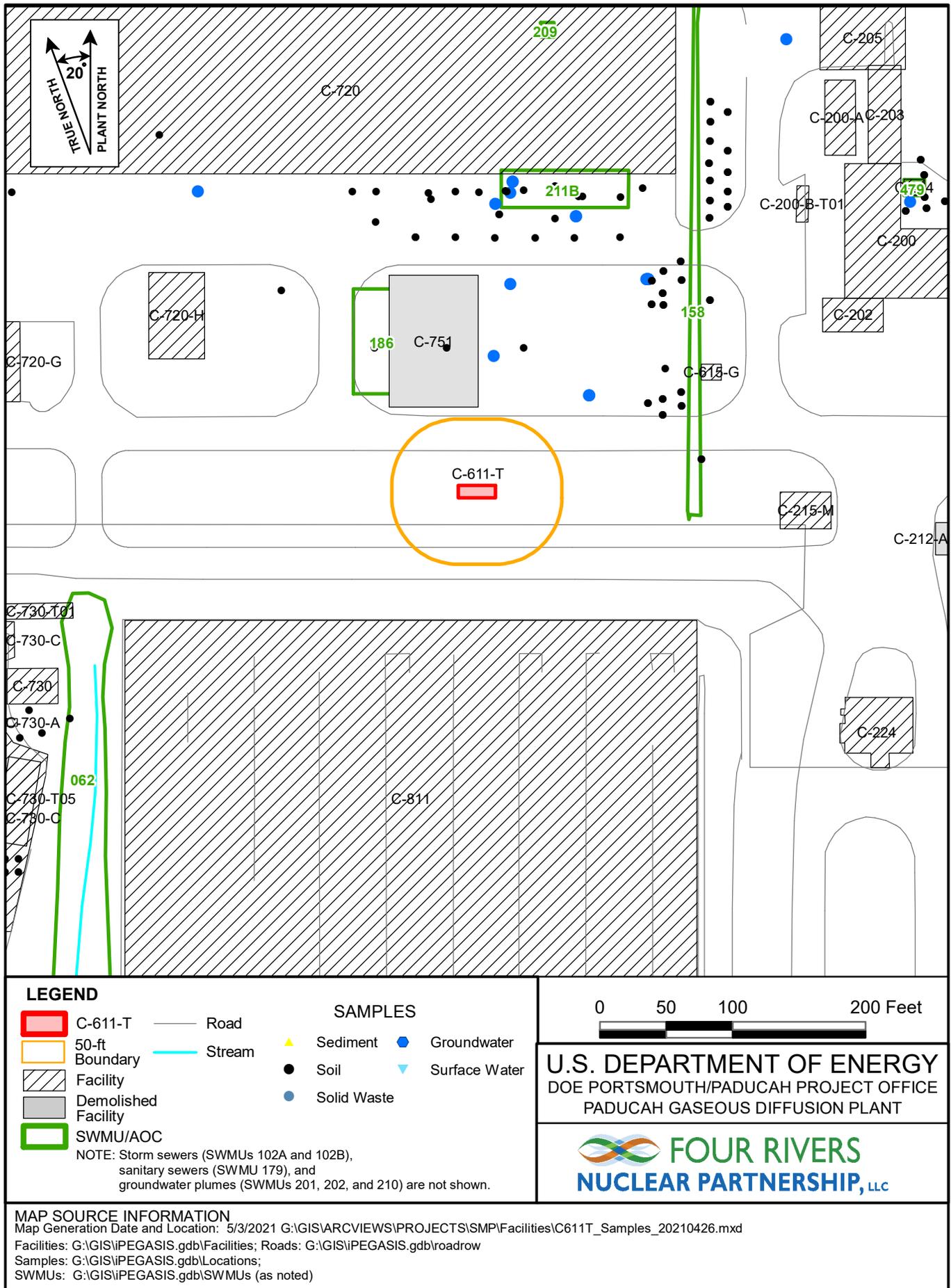


Figure 10. SWMU and Sample Locations near C-611-T

## **APPENDIX**

### **ENGINEERING DRAWINGS AND SUPPORTING DOCUMENTATION**

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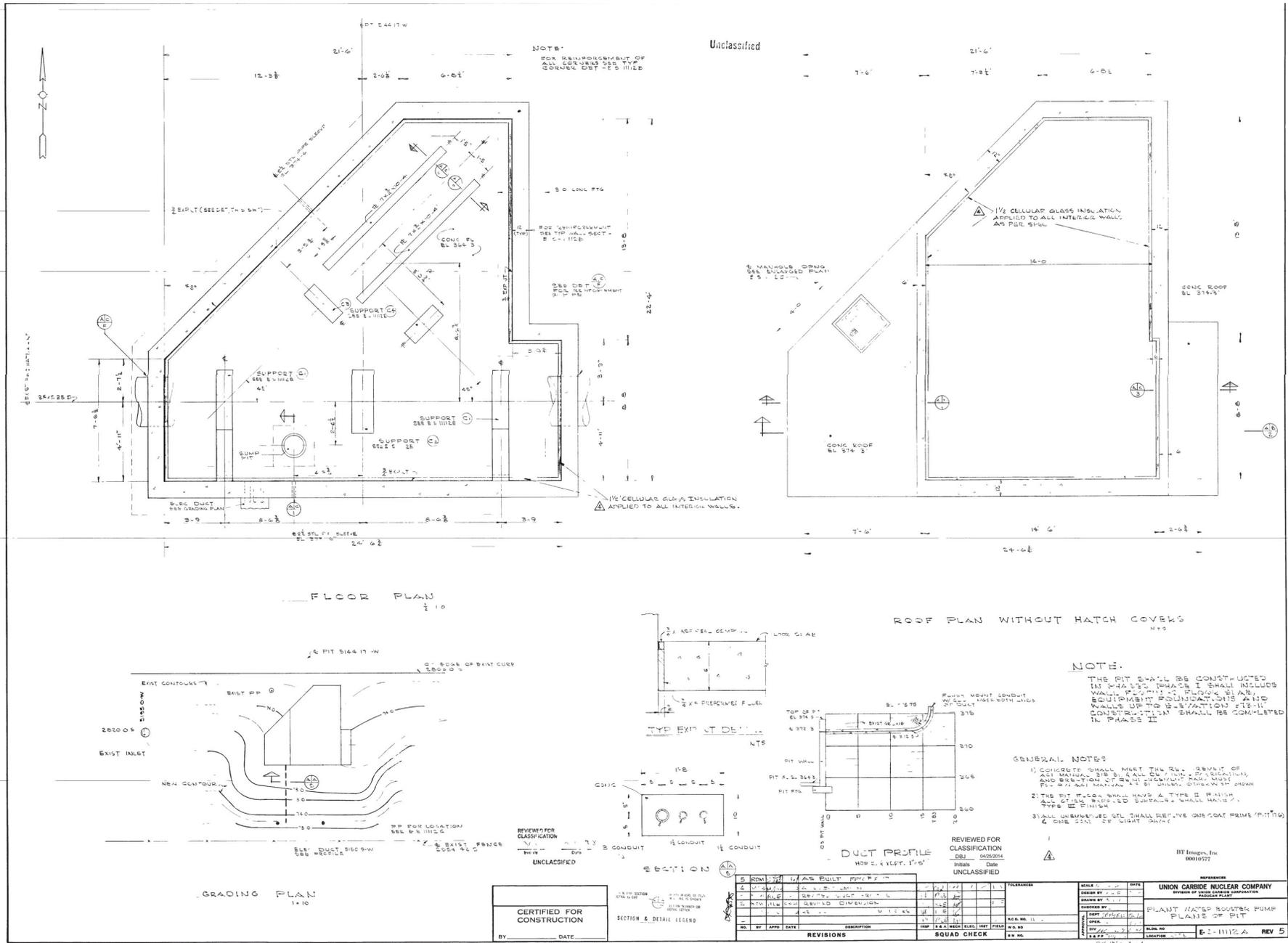
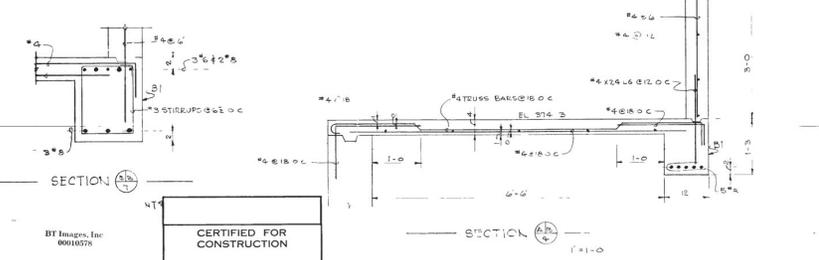
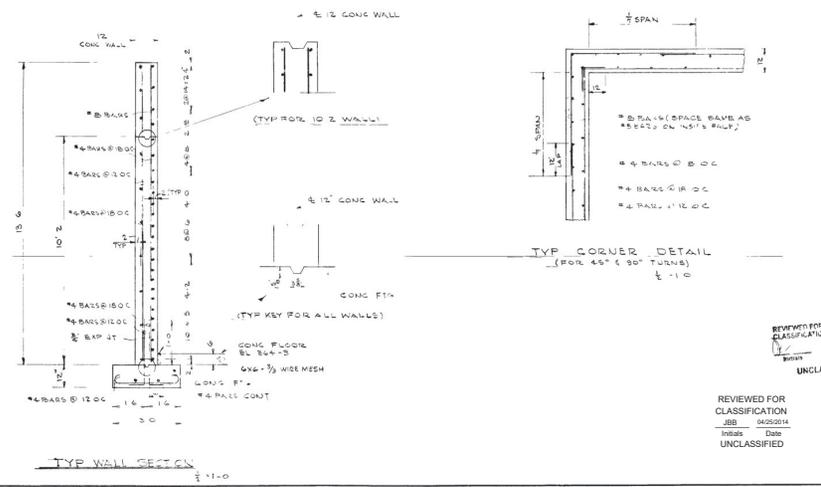
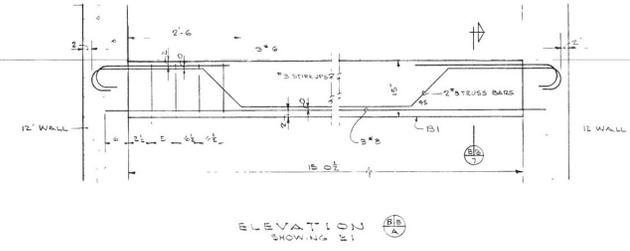
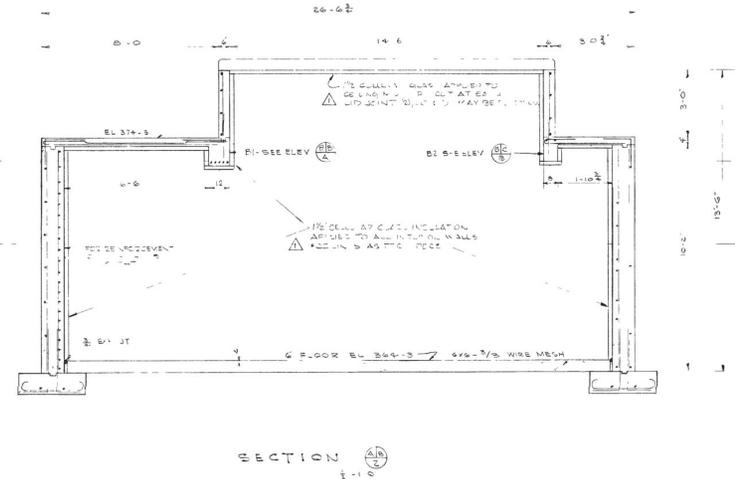
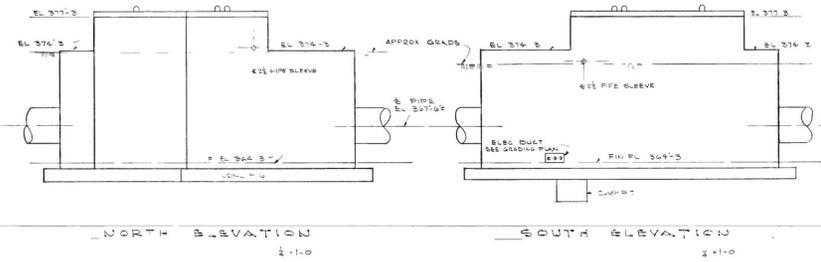
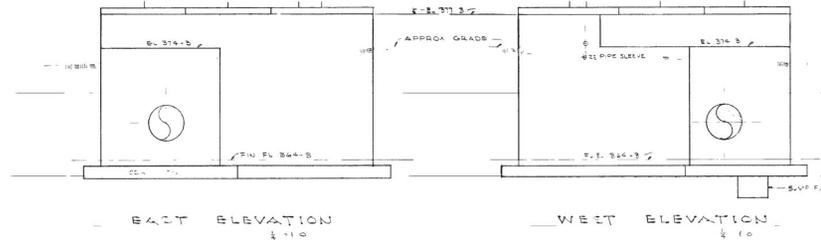


Figure A.1. Engineering Drawing E-S-1112 A

Unclassified

A-4



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DATE 3-11-84  
UNCLASSIFIED

BT Images, Inc.  
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BY: \_\_\_\_\_ DATE: \_\_\_\_\_

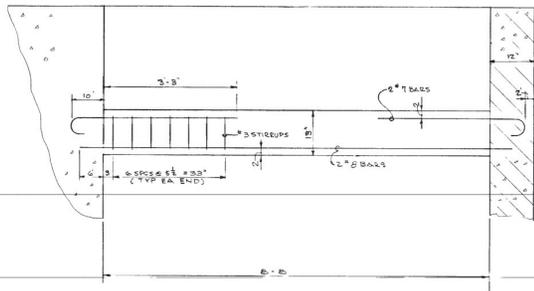
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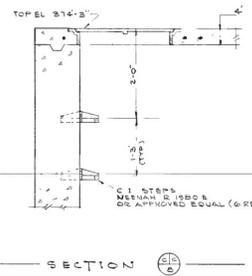
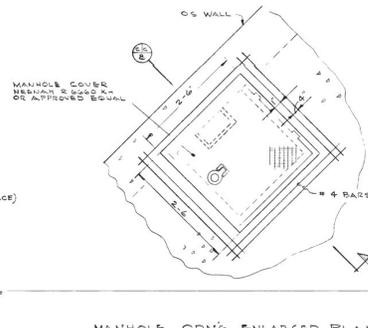
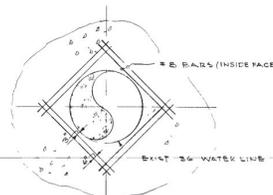
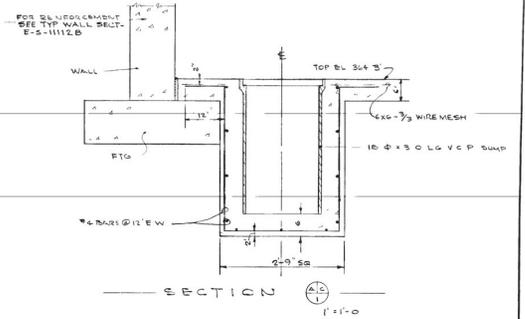
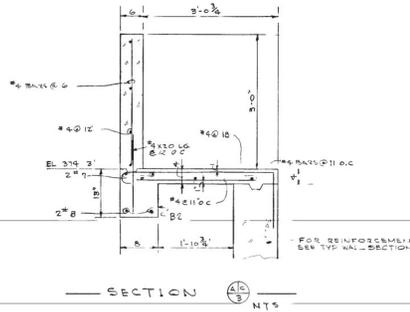
UNION CARBIDE NUCLEAR COMPANY	
DIVISION OF UNION CARBIDE CORPORATION	
PROJECT	LOCATION
PLANT WATER BOOSTER PUMP	E-S-11112 B
ELEVATIONS SECTIONS & DETAILS	REV 2

Figure A.2. Engineering Drawing E-S-1112 B

Unclassified



ELEVATION (SHOWING B2) NTS



REVIEWED FOR CLASSIFICATION UNCLASSIFIED

REVIEWED FOR CLASSIFICATION UNCLASSIFIED

DTI Images, Inc. 00010979

SECTION & DETAIL LEGEND

NO.		BY	DATE	REVISIONS	DESCRIPTION	IMP.	DESIGN	FIELD	FIELD	FILE NO.	REV.	DATE	BY	DATE	DESCRIPTION
<p>UNCLASSIFIED</p> <p>PLANT WATER BOOSTER PUMP ELEVATIONS, SECTIONS &amp; DETAILS</p> <p>LOCATION: E-S-11112 C REV 0</p>															

Figure A.3. Engineering Drawing E-S-11112 C



Figure A.5. C-611-P and C-611-T Correspondence, dated April 14, 2021

**bphillips@stratag.org**

---

**From:** Anderson, Andy <Andy.Anderson@pad.pppo.gov>  
**Sent:** Wednesday, April 14, 2021 1:41 PM  
**To:** bphillips@stratag.org  
**Cc:** Summers, Ronald; Maurer, Matt; Donohoo, Dale  
**Subject:** RE: [ EXTERNAL SENDER ] RE: [ EXTERNAL SENDER ] RE: C-611-P and C-611-T

C-611-P and C-611-T pump plant (process) water to the cooling towers as well as through the chilled water units for condenser cooling as it traveled to the cooling towers. Plant or process water was treated to soften the water for greater cycles in the Recirculating Circulating Water Cooling towers. It was the same as potable water minus filtration and post chlorination. IT DID NOT HAVE CHROMATE added to it.

This help?

Andy

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**From:** bphillips@stratag.org <bphillips@stratag.org>  
**Sent:** Wednesday, April 14, 2021 12:34 PM  
**To:** Anderson, Andy <Andy.Anderson@pad.pppo.gov>; Donohoo, Dale <Dale.Donohoo@pad.pppo.gov>  
**Cc:** Summers, Ronald <Ronald.Summers@pad.pppo.gov>; Maurer, Matt <Matt.Maurer@pad.pppo.gov>  
**Subject:** [ EXTERNAL SENDER ] RE: [ EXTERNAL SENDER ] RE: C-611-P and C-611-T  
**Importance:** High

Did C-611-P and T distribute "raw" water, or was it chromated (prior to 1991) water being pumped??

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