NEPA REVIEW SCREENING FORM (NRSF) 3
Categorically Excluded Actions

Document ID #: DOE/CX-00246

I. Project Title:

Site Characterization Borehole/Well Drilling at the Columbia Generating Station Washington Nuclear Plant (WNP-1) Site in Support of Energy Northwest and Amazon Development and Deployment of Advanced Small Modular Reactor Technology at the Hanford Site, Richland, Washington

II. Describe the proposed action, including location, time period over which proposed action will occur, project dimension *(e.g., acres displaced/disturbed, excavation length/depth)*, and area/location/number of buildings. Attach narratives, maps and drawings of proposed action. Describe existing environmental conditions and potential for environmental impacts from the proposed action. If the proposed action is not a project, describe the action or plan.

BACKGROUND

On October 16, 2024, Amazon and Energy Northwest announced an agreement to fund efforts to develop and deploy advanced small modular reactor (SMR) technology in Washington State to achieve reliable energy across the Pacific Northwest. Amazon would fund the initial feasibility phase of an SMR project, which is proposed for construction at Energy Northwest's Columbia Generating Station on the former Washington Nuclear Project (WNP-1) site (see Figure 1). Energy Northwest has a lease agreement with the United States Department of Energy Hanford Field Office (DOE-HFO) for use of the land associated with the Columbia Generating Station (WNP-2), and a separate lease for the former abandoned WNP-1 and WNP-4 construction sites.

The agreement would enable the development and deployment of four SMRs, each capable of generating 80 megawatts (MW) of electricity. The reactors would be constructed, owned, and operated by Energy Northwest, and are expected to generate roughly 320 MW of electricity for the first phase of the project. An optional second phase would increase the electricity output to 960 MW by constructing eight additional SMRs for a total of twelve (see Figure 2). This would be enough electricity to power the equivalent of roughly 770,000 homes. These projects would help meet the forecasted energy needs of the Pacific Northwest beginning in the early 2030s. The Amazon agreement with Energy Northwest is expected to support up to 1,000 temporary construction jobs and as many as 100 permanent jobs once the SMR project is fully operational.

Since 2020, Energy Northwest and X-Energy have engaged in plans to construct an Xe-100 SMR facility on the Hanford Site near the Columbia Generating Station at the former WNP-1 Site. Energy Northwest announced their intention to partner with X-Energy in the development and commercial deployment of new SMR technology in support of the Advanced Reactor Demonstration Program (ARDP), which was awarded to Energy Northwest on October 13, 2020, by the DOE Office of Nuclear Energy (DOE-NE). This program was driven by Congressional mandates and DOE objectives of maintaining the nation’s role as a global leader in nuclear energy innovation and technological development, as well as the deployment of vital new clean energy generating resources.

On February 24, 2022, Energy Northwest sent a letter to the former DOE Richland Operations Office (DOE-RL, now DOE-HFO) requesting authorization to proceed with site characterization borehole/well drilling and environmental monitoring activities at the WNP-1 site. This data would support efforts to prepare an environmental report, determine site suitability, enable sufficient safety analyses, and support Energy Northwest's construction permit application to the United States Nuclear Regulatory Commission (NRC) as required by Title 10 Code of Federal Regulations (CFR) Part 51, "Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions" and Title 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities." This data is needed to support detailed analyses and evaluations of geological characteristics, engineering properties of soils and rocks, groundwater conditions, human induced conditions, cultural and ecological resources, and other environmental considerations to inform sufficient safety analyses. A NEPA Review Screening Form (DOE/CX-00221) for site characterization and environmental monitoring was previously approved by the DOE Environmental Management (DOE-EM) NEPA Compliance Officer (NCO) on May 26, 2022, for similar work. However, the work was never performed.

Implementation of SMRs at the former WNP-1 site would be consistent with the "Final Hanford Comprehensive Land Use Plan Environmental Impact Statement" (DOE/EIS-0222-F, September 1999) and Record of Decision (64 FR 61615; November 12, 1999), which designates the area for industrial land use (see Figure 3). As such, the area is suitable and desirable for activities, such as reactor operations, rail, barge transport facilities, mining, manufacturing, food processing, assembly, warehouse, and distribution operations. The project would be performed in three phases. The first phase, which is the subject of this NEPA Review Screening Form, would focus on site

characterization and environmental monitoring needed to determine site suitability for potential future deployment of SMR technology. If any additional licenses, permits, or other approvals by Washington State regulatory agencies (e.g., Washington State Department of Ecology, Washington State Department of Health, etc.) are required, then compliance with Washington Administrative Code (WAC) 197-11, "State Environmental Policy Act (SEPA) Rules," may become necessary.

The second phase would require separate NEPA review and may involve preparation of an Environmental Assessment (EA) or Environmental Impact Statement (EIS) for performing site preparation (i.e., non-nuclear construction) activities. In accordance with DOE's NEPA implementing procedures at 10 CFR 1021.211, "Interim Actions: Limitations on Actions During the NEPA Process," while DOE is preparing an EIS (or EA) the agency shall take no interim action concerning the proposal that is the subject of the EIS (or EA) before issuing a ROD (or FONSI) if the action would have an adverse environmental impact or limit the choice among reasonable alternatives. If the interim action would not have an adverse environmental impact or limit the choice among reasonable alternatives, then the action may be categorically excluded under the provisions of Subpart D, "Typical Classes of Actions," Paragraph 1021.410, "Application of Categorical Exclusions (classes of actions that normally do not require EAs or EISs)," and Appendix B, "Categorical Exclusions Applicable to Specific Agency Actions," of DOE's NEPA implementing procedures. The second phase activities are not anticipated to have an adverse environmental impact or limit the choice among reasonable alternatives. Therefore, such activities may be eligible for categorical exclusion. The level of NEPA review for second phase activities would be determined by the DOE-HFO NEPA Compliance Officer.

The third phase would require an EIS in accordance with DOE's NEPA implementing procedures at 10 CFR 1021, Subpart D, Appendix D, D4, which covers the siting, construction, operation, and decommissioning of power reactors, nuclear material production reactors, and test and research reactors. This EIS would be prepared by the NRC with DOE-HFO and Washington's Energy Facility Site Evaluation Council (EFSEC) as cooperating agencies. State agencies have the option to participate in the preparation and review of the NRC's EIS as a cooperating agency or adopt the EIS to satisfy their obligations in accordance with the SEPA Rules (WAC 197-11). Energy Northwest would be responsible for working with appropriate Washington State regulatory agencies to obtain all required licenses, permits, and other approvals as required. It is anticipated that EFSEC would cooperate on a joint NEPA/SEPA EIS or adopt the NEPA EIS to support any required SEPA determinations for site certification.

PROPOSED ACTION

Characterization and monitoring of WNP-1 site subsurface geology and hydrology would require the installation of shallow and deep wells and other borings. Up to ten groundwater well pairs would be placed in an area approximately 100 feet wide around the perimeter of the site boundary (see Figure 4). The well pairs would provide monitoring to evaluate groundwater quality flowing beneath the WNP-1 site that may be affected by upgradient facilities (e.g., 618-11 Burial Ground) and would provide downgradient monitoring to evaluate the effects of proposed SMR construction and operation activities on groundwater quality (see Figure 5). Estimated drilling depths for groundwater well pairs would range between approximately 40 feet and 200 feet below ground surface. Actual depths would be determined based on field conditions and locations of target aquifers and/or water bearing zones. These well pair installations would provide groundwater characterization and monitoring as well as establish the baseline chemical and physical conditions of the site hydro-stratigraphy to inform the development of a conceptual site model.

The site characterization activities would also include up to five geotechnical exploratory borings/wells at depths of up to approximately 200 feet below ground surface. The geotechnical exploratory borings/wells would be drilled ahead of, and adjacent to, the groundwater monitoring well pairs to inform well design and installation. The locations of all borings/wells would be accessible from existing paved or gravel roads, or via off-road access using a tracked drilling rig capable of traversing unconsolidated sandy soils.

The characterization of site geology and hydrology would require the drilling of up to 280 investigation boreholes within the geologic investigation area. The maximum depth of borings is estimated to be approximately 600 feet below ground surface. The investigation borehole locations would be within the WNP-1 site boundary, which is approximately 364 acres.

Sonic and mud rotary techniques are proposed for the drilling of site characterization boreholes/

wells. A starter hole may be excavated using a vacuum truck to clear the location for possible underground utilities, structures, infrastructures, or other subsurface obstructions.

Other drilling methods and investigation techniques may be used should the need arise. Such methods would include, but may not be limited to, air rotary, cable tool, auger, and directional drilling methods; utility location surveys; penetration testing; seismic velocity and resistivity testing; gamma logging; refraction microtremor (ReMi) testing; exploratory trenches or pits; and multichannel analysis of surface waves (MASW) testing. Use of other drilling or investigation methods may become necessary in response to site hydrogeologic conditions to achieve desired drilling objectives (e.g., depth of penetration, rate of penetration, intact sample recovery, continuous sampling capability, contamination control, etc.).

Various activities would be conducted to support site characterization borehole/well drilling efforts and may include, but not be limited to, materials storage, equipment staging, personnel accommodations (i.e., portable restrooms, office trailers, lunch trailers, etc.), and vehicle parking. All support activities would be temporary and occur within the area of potential effects discussed herein.

ECOLOGICAL RESOURCES REVIEW (ECR-2022-614)

DOE-HFO Ecological Compliance performed a survey of the project area on April 5, 2022. In addition, Energy Northwest contractors are performing fall, winter, and spring ecological field surveys in the 2024-2025 time frame. The Hanford Site Biological Resources Management Plan (BRMP, DOE/RL-96-32, Rev. 2), which is the primary implementation document for managing and protecting biological resources on the Hanford Site, ranks wildlife species and habitats based on the level of concern for each resource (levels 0-5). BRMP level 0 and 1 habitats provide little or no ecological value and require no protection or conservation. When possible for BRMP level 2, 3, and 4 habitats impacts would be avoided to the extent feasible or diverted to a lower quality habitat. However, if impacts are unavoidable, then the impacts would be minimized. Compensatory mitigation for these BRMP levels is required if the total project impact after avoidance, minimization, and onsite rectification is greater than 1.2 acres. Replacement ratios for BRMP level 2, 3, and 4 habitats are 1:1, 3:1, and 5:1, respectively. BRMP level 5 habitats are "element occurrences," which are difficult to replace if lost. Compensatory mitigation of impacts to BRMP level 5 habitats is determined on a case-by-case basis. There are no BRMP level 4 or 5 habitats in the project area.

Approximately 0.30 acres of BRMP level 3 habitat is present within the project area. BRMP level 2 habitats are prevalent within the WNP-1 site boundary and cover approximately 53.37 acres of the project area. Remaining portions of the project area are BRMP level 0 and 1 habitats, which are managed to best support the ongoing waste management, environmental restoration, and technology development missions of the Hanford Site. There are no compensatory mitigation requirements associated with BRMP level 0 and 1 habitats beyond regulatory compliance (e.g., Migratory Bird Treaty Act).

Noxious Weeds. A patch of the Washington State Class B noxious weed dalmatian toadflax was observed in the drilling area. Dalmatian toadflax causes negative impacts to natural areas where it out-competes native species. Energy Northwest or its subcontractors would consider eradicating dalmatian toadflax from the drilling area prior to the initiation of project activities using mechanical or chemical control to prevent the spread of noxious weed seeds. Additionally, project vehicles and equipment used off-road in areas containing noxious weeds would be washed in the field at designated cleaning stations with cold, low-pressure water or compressed air prior to leaving the area to prevent the spread of noxious weed seeds. Soaps, detergents, or cleaners would not be used.

Migratory Birds. Birds can nest within the project area on the ground, on buildings, or on equipment and the nesting season is typically from mid-March to mid-July on the Hanford Site. Energy Northwest would instruct project personnel to watch for nesting birds. If any nesting birds are encountered or suspected, or bird defensive behaviors are observed within the project area, then project personnel would follow Energy Northwest procedures and contact appropriate Environmental and Regulatory Programs personnel to evaluate the situation. Energy Northwest would perform a nesting bird survey prior to the project conducting ground disturbing activities during the nesting season. The nesting bird survey would be scheduled at least one week prior to initiation of ground disturbing activities and a copy of the results would be provided to DOE-HFO

Ecological Compliance.

Mitigation Measures. Compliance with ecological resources protection requirements would be coordinated between DOE-HFO and Energy Northwest. Energy Northwest would conduct an ecological survey post-construction to determine actual impacts to ecological resources and recommend appropriate mitigation measures. A copy of the post-construction ecological survey results would be provided to DOE-HFO Ecological Compliance.

No adverse impacts to ecological resources are anticipated from site characterization and environmental monitoring activities. Any changes in the scope of activities that could result in disturbances outside of the project area are not included in this evaluation. Because ecological field surveys are occurring quarterly at this project area, the ecological resources review is ongoing. Once completed, the ecological field surveys will have evaluated the seasonal and migratory nature of plant and animal species on the site.

CULTURAL RESOURCES REVIEW (HCRC#2022-600-007)

DOE-HFO Cultural and Historic Resources Program (CHRP) conducted a Cultural Resources Review (CRR) of the proposed project. DOE-HFO CHRP sent an Area of Potential Effects (APE) notification to the Washington State Historic Preservation Officer (SHPO) and regional Tribes on March 17, 2022, and conducted a site survey on April 5, 2022. No new cultural resources were located during the site survey. DOE-HFO CHRP transmitted the CRR with a finding of "No Adverse Effects" to the SHPO and regional Tribes for a 30-day comment period on April 13, 2022. The SHPO concurred with the findings of the CRR on April 14, 2022. On May 19, 2022, DOE-HFO CHRP provided a notice of compliance with 54 United States Code (USC) §306108 (formerly known as Section 106) of the "National Historic Preservation Act" (NHPA) for this project.

One historic property site is located outside the WNP-1 boundary project area (See Figure 6). However, the proposed project would not affect this property and mitigation for potential adverse effects has been completed in accordance with DOE/RL-97-56, "Hanford Site Manhattan Project and Cold War Era Historic District Treatment Plan." The majority of the APE has been extensively disturbed as a result of construction activities prior to the abandonment of the WNP-1 construction project.

Although no impacts to cultural resources are anticipated from characterization and environmental monitoring activities, Energy Northwest would direct all workers to watch for cultural materials (e.g., bones, stone tools, mussel shell, arrowheads, burned rocks/charcoal, cans, and bottles, etc.) during work activities. If any cultural materials are encountered, Energy Northwest procedures would be followed and work in the vicinity of the discovery would stop until a DOE-HFO CHRP Cultural Resources Specialist has been notified, the significance of the find is assessed, appropriate consulting parties are notified, and if necessary, arrangements made for mitigation of the find.

HEALTH AND SAFETY PLAN

Energy Northwest would be responsible for preparing a Health and Safety Plan (HASP) to address anticipated site characterization borehole/well drilling, monitoring, and related support activities. The HASP would be prepared in accordance with Washington Division of Occupational Safety and Health regulations or other applicable regulations prior to initiating site characterization borehole/well drilling, monitoring, and related support activities to ensure worker protection. Energy Northwest or its drilling subcontractor would perform tailgate safety meetings at the start of each workday, when a new person joins the work group, and when activities change from those planned. The HASP would also address protocols and procedures to ensure worker health and safety in the event contaminated soil or groundwater is encountered during site characterization borehole/well drilling and development activities to mitigate potential effects.

618-11 BURIAL GROUND

The 618-11 burial ground lies directly west of the Columbia Generating Station (see Figures 7 and 8). The site consists of three "V" shaped trenches, 2 large diameter caissons, and 50 vertical pipe units, which are open to the soil at the bottom. The burial ground received a variety of waste from 300 Area operations. Based on historical information, contaminates of concern include, but may not be limited to, uranium, cesium, strontium, curium, cobalt-60, technetium-99,

zirconium/plutonium metal, plutonium nitrate, thorium, beryllium, aluminum-lithium, carbon tetrachloride, tritium, and sodium-potassium eutectic.

The burial ground operated from 1962 to 1967, is currently inactive, and covers 8.6 acres. Shortly after the site was closed, it was covered with 4 feet of soil. In 1983, the surface of the site was stabilized with an additional 2 feet of soil and planted with wheatgrass. The site perimeter is fenced and marked with concrete posts.

Previous groundwater monitoring was conducted in May 2000 (PNNL-13228) and August 2005 (PNNL-15293) and can be consulted for historical groundwater contaminant plume data. On January 12, 2022, DOE-HFO provided environmental characterization data in response to an Energy Northwest request in support of their license application to the NRC. The data included extensive groundwater characterization data accessed through the Hanford Environmental Dashboard Application as well as geologic data derived from multiple models currently in use at the Hanford Site.

WELL DRILLING AND INSTALLATION

Prior to the start of site characterization borehole/well drilling activities, Energy Northwest or its drilling subcontractor would obtain all required permits and licenses from the Washington State Department of Ecology in accordance with applicable regulations (e.g., WAC 173-160, "Minimum Standards for Construction and Maintenance of Wells" and WAC 173-162, "Regulation and Licensing of Well Contractors and Operators"). Site characterization borehole/well drilling and installation would be performed in accordance with WAC 173-160-400, "Minimum Standards for Resource Protection Wells and Geotechnical Soil Borings." Dry boreholes and other abandoned boreholes would be closed in accordance with WAC 173-160-381, "Standards for Decommissioning a Well." An onsite utility clearance would be conducted using an appropriate geophysical method (e.g., ground-penetrating radar) to locate and avoid subsurface obstructions at the prospective site characterization borehole/well drilling locations.

INVESTIGATION-DERIVED SOLID AND LIQUID WASTE

Energy Northwest or its drilling subcontractor would manage and dispose of investigation-derived solid and liquid waste in accordance with applicable Federal, State, local, and other requirements. Given the potential for encountering contaminated soil or groundwater during site characterization borehole/well drilling activities; well drilling, well development, soil boring, and well logging activities would be considered safety-related requiring radiological monitoring, materials handling/disposal, personal protective equipment, personnel training, and other provisions, as appropriate. Additionally, for environmental characterization purposes, soil samples would be screened in the field for the presence of volatile organic compounds (VOCs) using a photoionization detector and for alpha, beta, and gamma radiation using a Geiger-Mueller (GM) probe or other appropriate detectors and methods.

Investigation-derived waste (IDW), including but not limited to, soil, sediment, and rock cuttings; and disposable investigation supplies (i.e., plastic sheeting, personal protective equipment, etc.) would be stored onsite/offsite in either 55-gallon steel drums, wooden boxes with lids, or other regulatory compliant methods and placed on wooden pallets for future removal and disposition. The IDW containers would be labeled with content and contact information. Samples would be collected for waste profiling purposes and transported to a subcontracted laboratory for analysis, as required. Analysis would include, but may not be limited to, Resource Conservation and Recovery Act (RCRA) eight metals (arsenic, barium, cadmium, chromium, lead, mercury, silver, and selenium), leachability testing, VOCs, tritium, gross alpha/beta/gamma radiation, and nitrate, as required.

Liquid IDW consisting of well development water, purge water, and decontamination water would be temporarily contained and stored onsite/offsite in a centrally located water trough or other acceptable method. A sample of the water would be collected and analyzed for waste profiling purposes, as required. Samples would be transported to a subcontracted laboratory for analysis, which would include, but may not be limited to, the RCRA eight metals (arsenic, barium, cadmium, chromium, lead, mercury, silver, and selenium), VOCs, tritium, gross alpha/beta/gamma radiation, and nitrate, as required.

PERMITS AND OTHER AUTHORIZATIONS

Energy Northwest would be responsible for securing all applicable permits, licenses, and other approvals required under WAC 173-160 or other applicable Federal, State, and local regulatory

requirements to perform the site characterization borehole/well drilling, monitoring, and related support activities. In accordance with Article 22(a) of the existing lease between DOE-HFO and Energy Northwest, Energy Northwest would comply with applicable Federal, State, and local laws, ordinances, regulations, or instructions controlling the quality of the environment.

CONCLUSION

The proposed action to perform site characterization borehole/well drilling, monitoring, and related support activities as described herein would have NEPA coverage under 10 CFR 1021, Subpart D, Appendix B, Categorical Exclusion B3.1, "Site Characterization and Environmental Monitoring." This CX addresses site characterization and environmental monitoring including, but not limited to, siting, construction, modification, operation, and dismantlement and removal or otherwise proper closure (such as of a well) of characterization and monitoring devices. The CX also covers the siting, construction, and associated operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis. Such activities would be designed in conformance with applicable requirements and use best management practices to limit the potential effects of any resultant ground disturbance. Covered activities include, but are not limited to, the following site characterization and environmental monitoring activities:

(a) Geological, geophysical (such as gravity, magnetic, electrical, seismic, radar, and temperature gradient), geochemical, and engineering surveys and mapping, and the establishment of survey marks. Seismic techniques would not include large-scale reflection or refraction testing;

(b) Installation and operation of field instruments (such as stream-gauging stations or flow-measuring devices, telemetry systems, geochemical monitoring tools, and geophysical exploration tools);

(c) Drilling of wells for sampling or monitoring of groundwater or the vadose (unsaturated) zone, well logging, and installation of water-level recording devices in wells;

(d) Aquifer and underground reservoir response testing;

(e) Installation and operation of ambient air monitoring equipment;

(f) Sampling and characterization of water, soil, rock, or contaminants (such as drilling using truck- or mobile-scale equipment, and modification, use, and plugging of boreholes);

(g) Sampling and characterization of water effluents, air emissions, or solid waste streams;

(h) Installation and operation of meteorological towers and associated activities (such as assessment of potential wind energy resources);

(i) Sampling of flora or fauna; and

(j) Archaeological, historic, and cultural resource identification in compliance with 36 CFR part 800 and 43 CFR part 7.

Any changes to the proposed action described in this NEPA Review Screening Form would require additional NEPA review and approval by the DOE-HFO NEPA Compliance Officer, as applicable. This includes, but may not be limited to, additional cultural and ecological resource reviews that inform the NEPA review. This NEPA review only addresses site characterization borehole/well drilling, monitoring, and related support activities for the first phase of the project as described herein. Future efforts comprising the second and third phases of the project to perform non-nuclear site preparation construction activities; and the design, construction, operation, and decommissioning of the proposed SMRs and associated structures and infrastructures on the Hanford Site would be subject to additional NEPA determination, review, and approval by the DOE-HFO NEPA Compliance Officer.

III. Existing Evaluations *(Provide with NRSF to DOE NCO)*:

Maps:

Figure 1 - Aerial View of Energy Northwest Leased Site - Columbia Generating Station (WNP-2), WNP-1, and WNP-4

Maps:

Figure 2 - Conceptual Layout of Proposed Small Modular Reactors at WNP-1 Site

Figure 3 - Hanford Comprehensive Land Use Plan Map

Figure 4 - WNP-1 Site Boundary Proposed Geologic Investigation Area and Groundwater Monitoring Well Pair Locations Around Site Perimeter

Figure 5 - Regional Groundwater Flow Direction and Contours

Figure 6 - Location of Historic Property Site Outside the WNP-1 Site Boundary Project Area

Figure 7 - Aerial Photograph of 618-11 Burial Ground Located Northwest of Columbia Generating Station

Figure 8 - Location of 618-11 Burial Ground Relative to WNP-1 Site

Other Attachments:

N/A

IV. List Applicable CX(s) from Appendix B to Subpart D of 10 CFR 1021:

B3.1, Site Characterization and Environmental Monitoring

V. Integral Elements and Extraordinary Circumstances ***(See 10 CFR 1021, Subpart D, B. Conditions that are Integral Elements of the Class of Actions in Appendix B; and 10 CFR 1021.410(b)(2) under Application of Categorical Exclusions)***	**Yes**	**No**
Are there extraordinary circumstances that may affect the significance of the environmental effects of the proposed action? If yes, describe them.	○	◉
Is the proposed action connected to other actions with potentially significant impacts, or that could result in cumulatively significant impacts? If yes, describe them.	○	◉
Would the proposed action threaten a violation of applicable statutory, regulatory, or permit requirements related to the environment, safety, health, or similar requirements of DOE or Executive Orders?	○	◉
Would the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?	○	◉
Would the proposed action disturb hazardous substances, pollutants, contaminants, or natural gas products already in the environment such that there might be uncontrolled or unpermitted releases?	○	◉
Would the proposed action have the potential to cause significant impacts on environmentally sensitive resources? See examples in Appendix B(4) to Subpart D of 10 CFR 1021.	○	◉
Would the proposed action involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, such that the action is not contained or confined in a manner designed, operated, and conducted in accordance with applicable requirements to prevent unauthorized release into the environment?	○	◉

If "No" to all questions above, complete Section VI, and provide NRSF and any attachments to DOE NCO for review.
If "Yes" to any of the questions above, contact DOE NCO for additional NEPA review.

VI. Responsible Organization's Signatures:

Initiator:

Jerry W. Cammann, HMIS NEPA SME
Print First and Last Name

JERRY CAMMANN (Affiliate)
Digitally signed by JERRY CAMMANN (Affiliate)
Date: 2025.03.31 15:33:02 -07'00'
Signature / Date

Cognizant Program/Project Representative:

Tashina R. Jasso, DOE-HFO/SSD
Print First and Last Name

Tashina Jasso
Digitally signed by TASHINA JASSO
Date: 2025.04.01 08:49:48 -07'00'
Signature / Date

VII. DOE NEPA Compliance Officer Approval/Determination:

Based on my review of information conveyed to me concerning the proposed action, the proposed action fits within the specified CX(s): ☒ Yes ☐ No

NEPA REVIEW SCREENING FORM 3 **Categorically Excluded Actions** (Continued)	**Document ID #:** DOE/CX-00246

Douglas H. Chapin, DOE-HFO NCO	Douglas H. Chapin Digitally signed by DOUGLAS CHAPIN Date: 2025.04.01 08:57:13 -07'00'
Print First and Last Name	*Signature / Date*

NCO Comments:

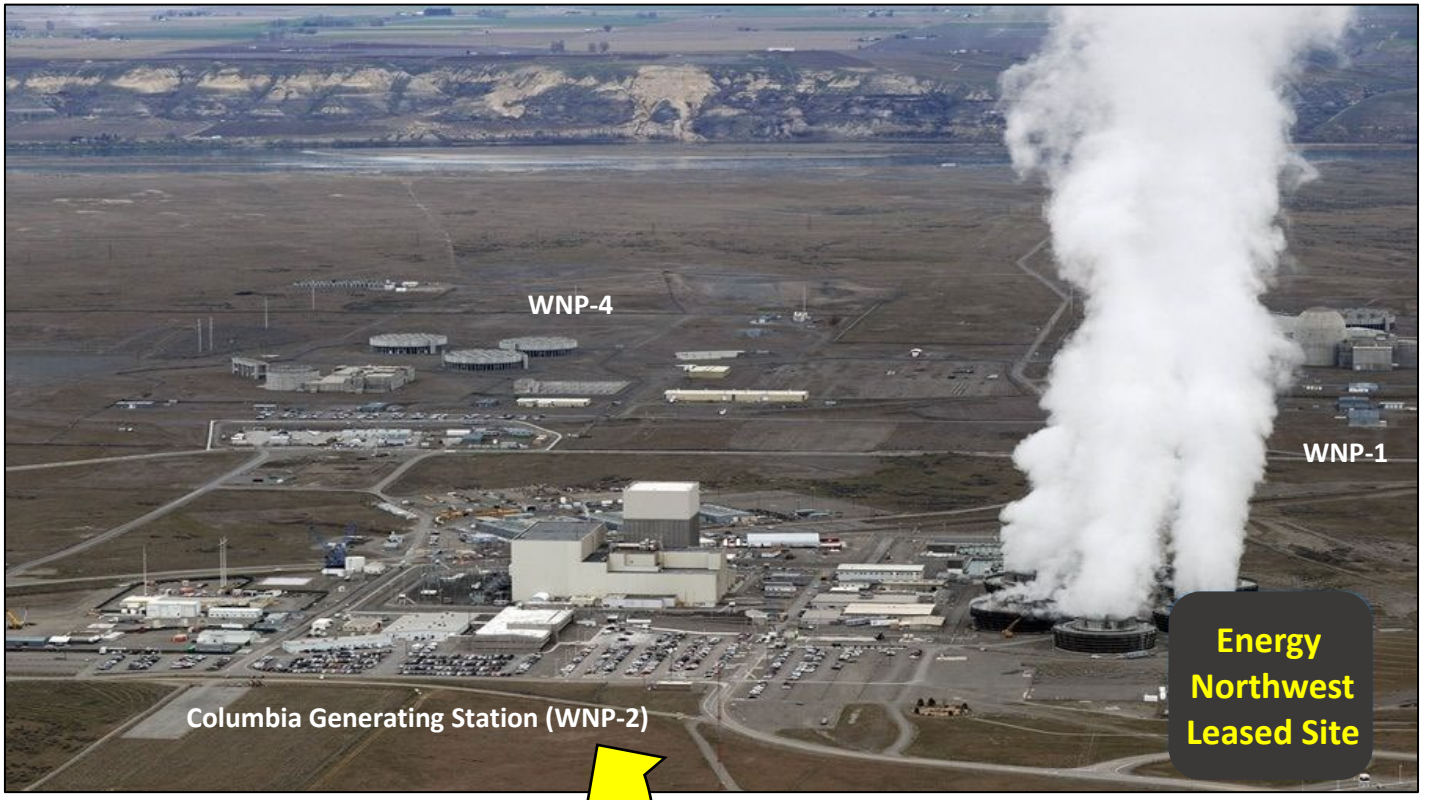
DOE/CX-00246

FIGURES

Site Characterization Borehole/Well Drilling at the Columbia Generating Station Washington Nuclear Plant (WNP-1) Site in Support of Energy Northwest and Amazon Development and Deployment of Advanced Small Modular Reactor Technology at the Hanford Site, Richland, Washington

9 Pages (including this page)

FIGURE 1 – AERIAL VIEW OF ENERGY NORTHWEST LEASED SITE – COLUMBIA GENERATING STATION (WNP-2), WNP-1, AND WNP-4



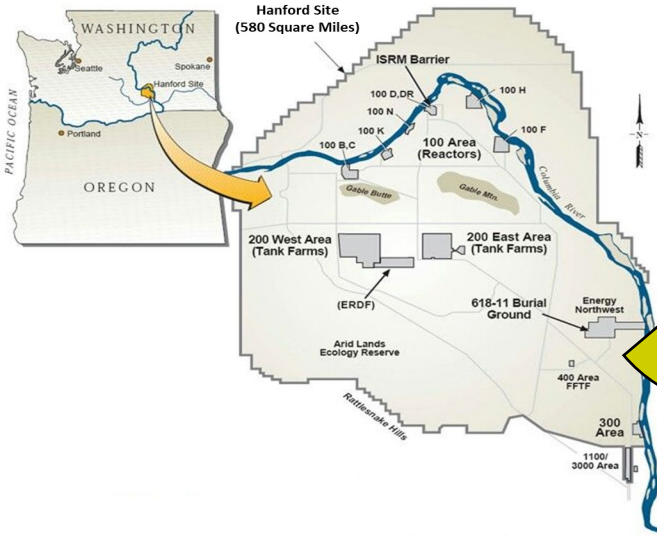


FIGURE 2 – CONCEPTUAL LAYOUT OF PROPOSED SMALL MODULAR REACTORS AT WNP-1 SITE

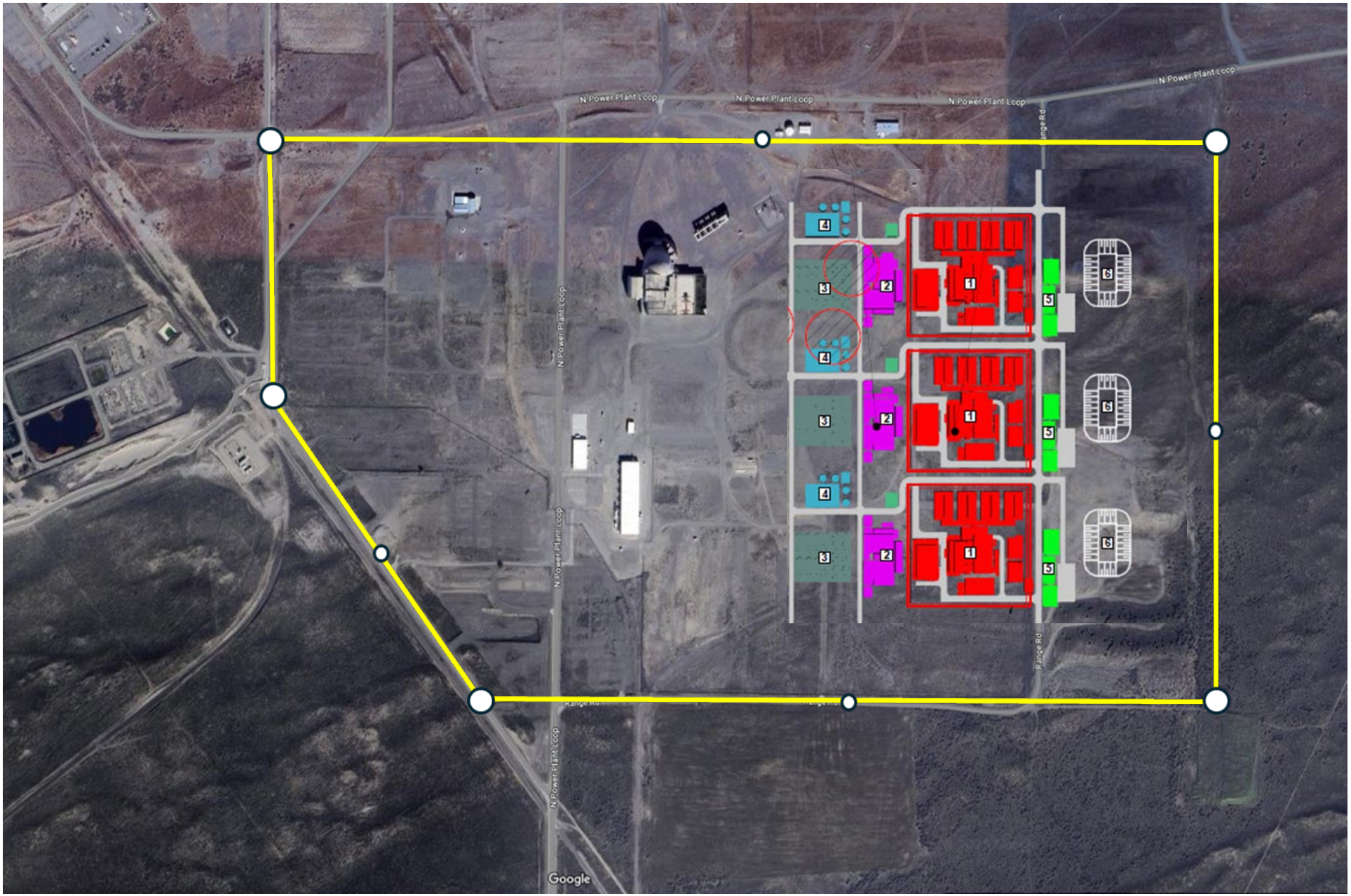
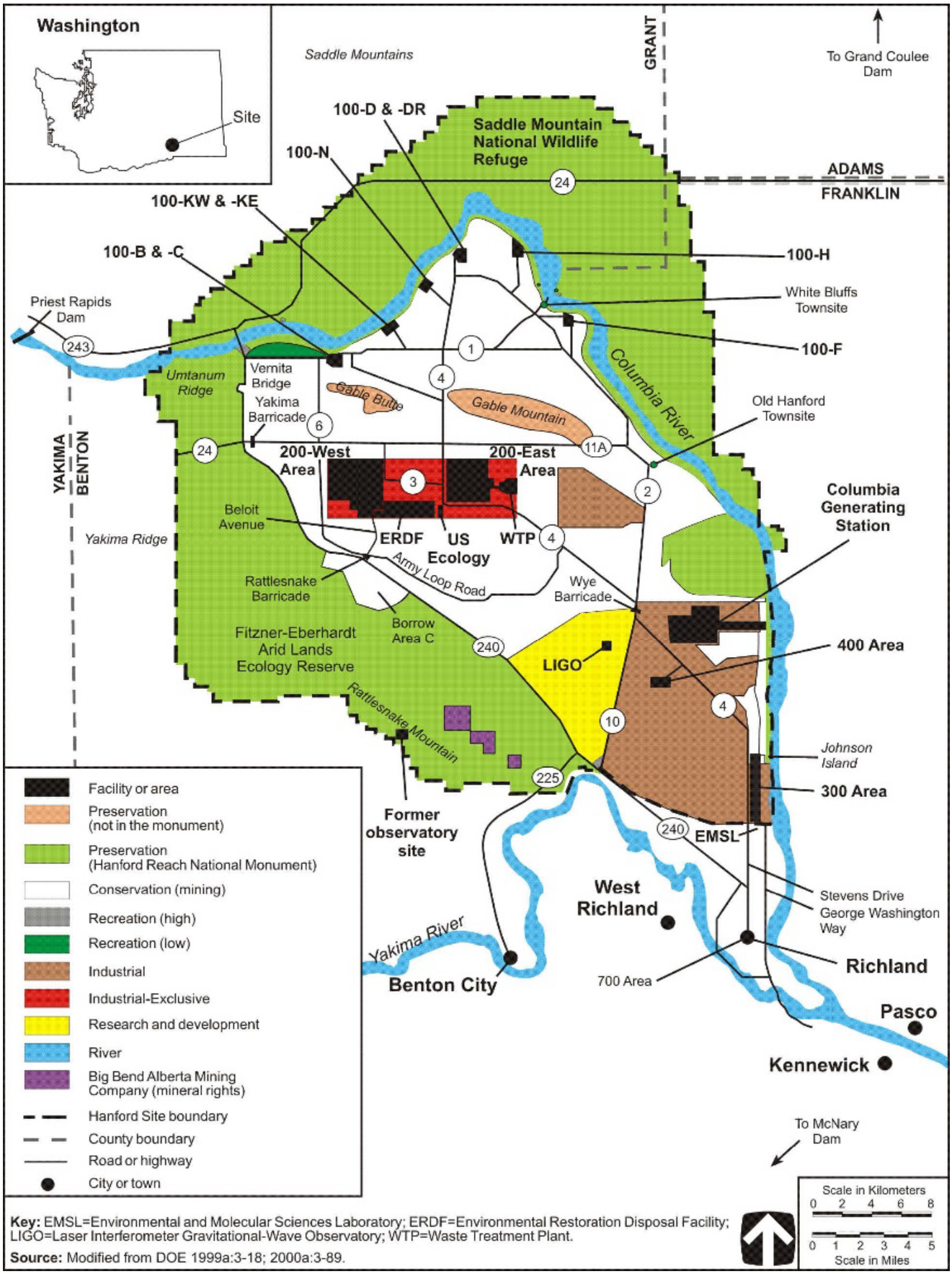


FIGURE 3 – HANFORD COMPREHENSIVE LAND USE PLAN MAP



Key: EMSL=Environmental and Molecular Sciences Laboratory; ERDF=Environmental Restoration Disposal Facility; LIGO=Laser Interferometer Gravitational-Wave Observatory; WTP=Waste Treatment Plant.

Source: Modified from DOE 1999a:3-18; 2000a:3-89.

FIGURE 4 – WNP-1 SITE BOUNDARY PROPOSED GEOLOGIC INVESTIGATION AREA AND GROUNDWATER MONITORING WELL PAIR LOCATIONS AROUND SITE PERIMETER

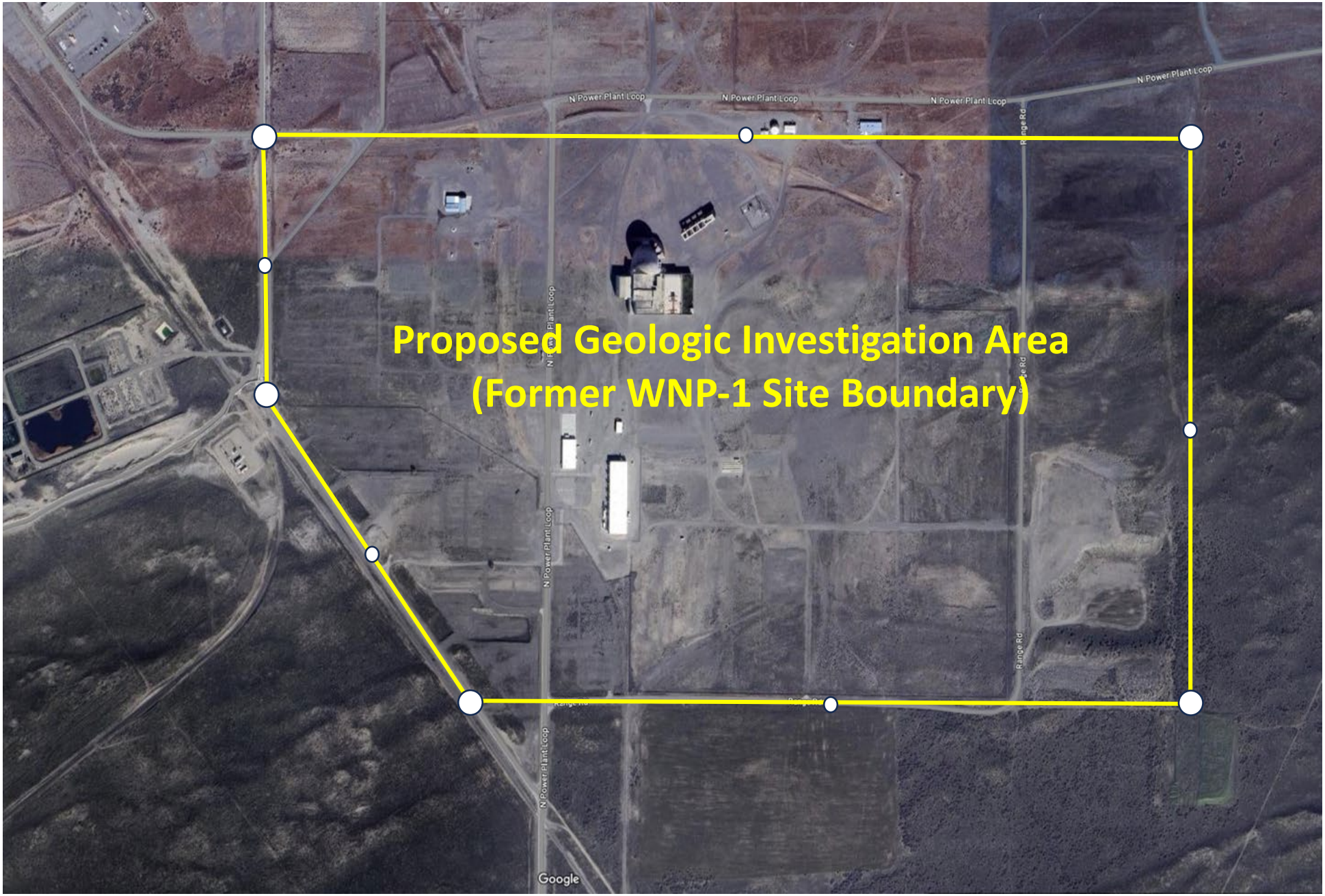
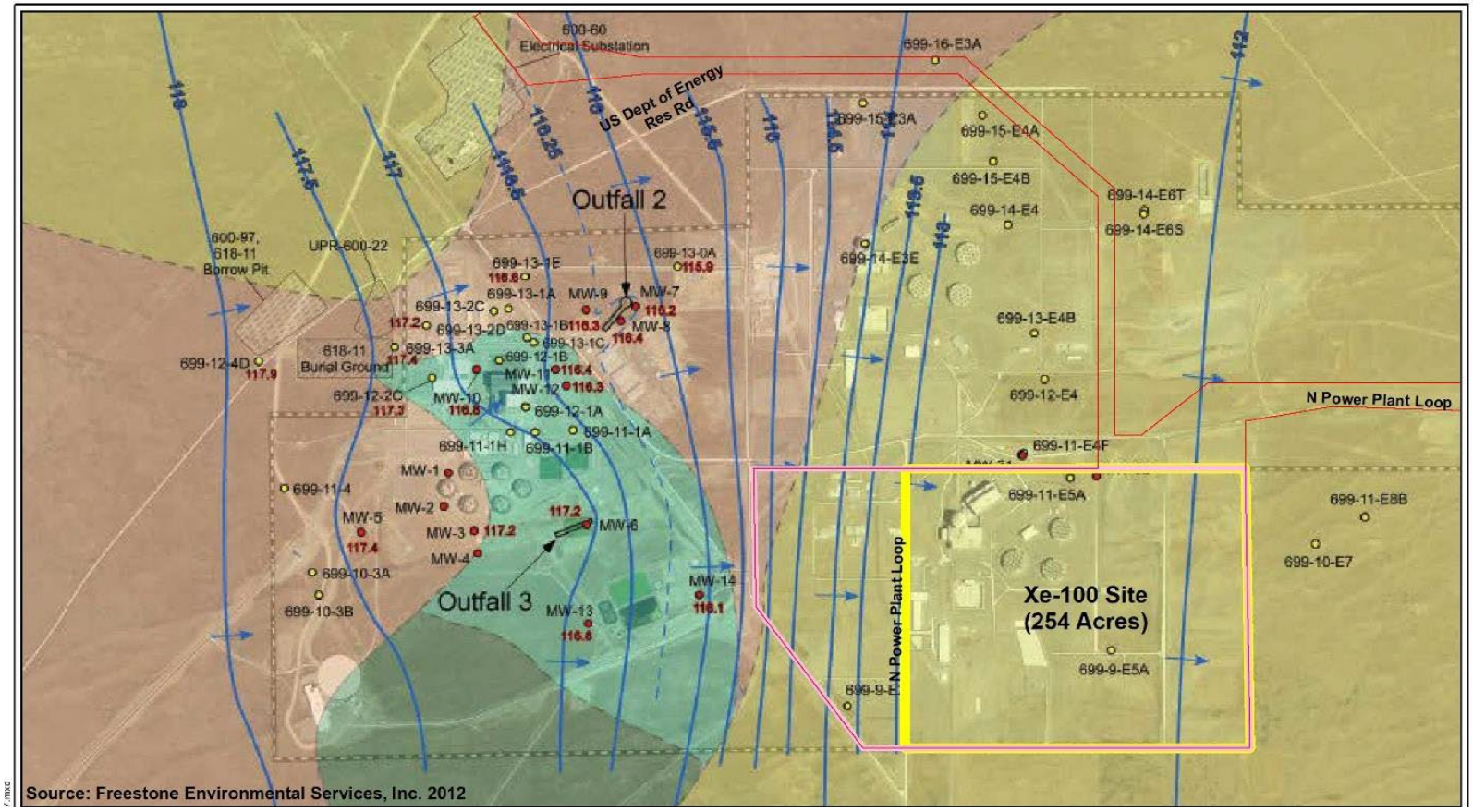


FIGURE 5 – REGIONAL GROUNDWATER FLOW DIRECTION AND CONTOURS



(Source: Freestone Environmental Services, Inc., May 2012, Energy Northwest Columbia Generating Station Groundwater Quality Study)

FIGURE 6. LOCATION OF HISTORIC PROPERTY SITE OUTSIDE THE WNP-1 SITE BOUNDARY PROJECT AREA

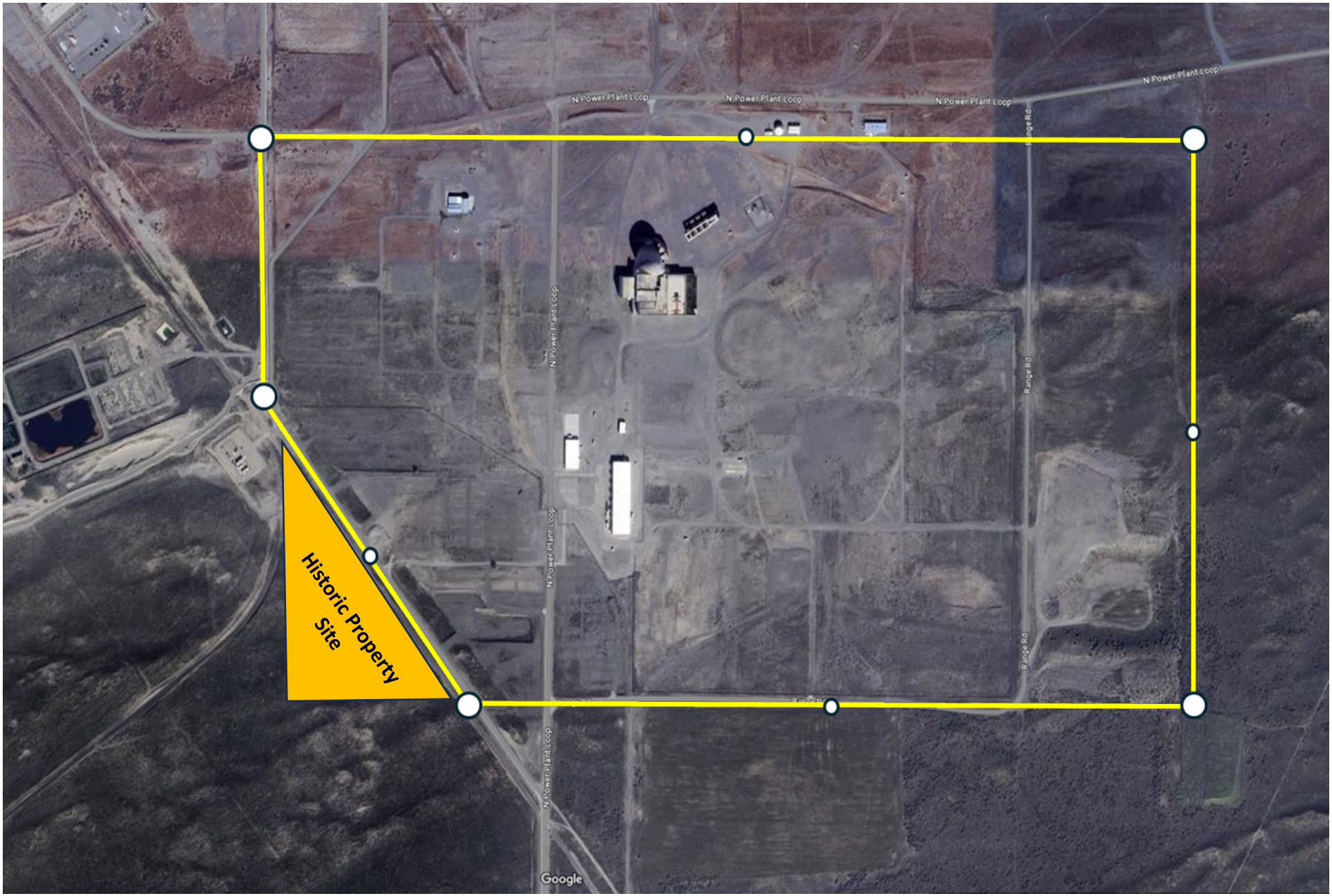


FIGURE 7 – AERIAL PHOTOGRAPH OF 618-11 BURIAL GROUND LOCATED NORTHWEST OF COLUMBIA GENERATING STATION

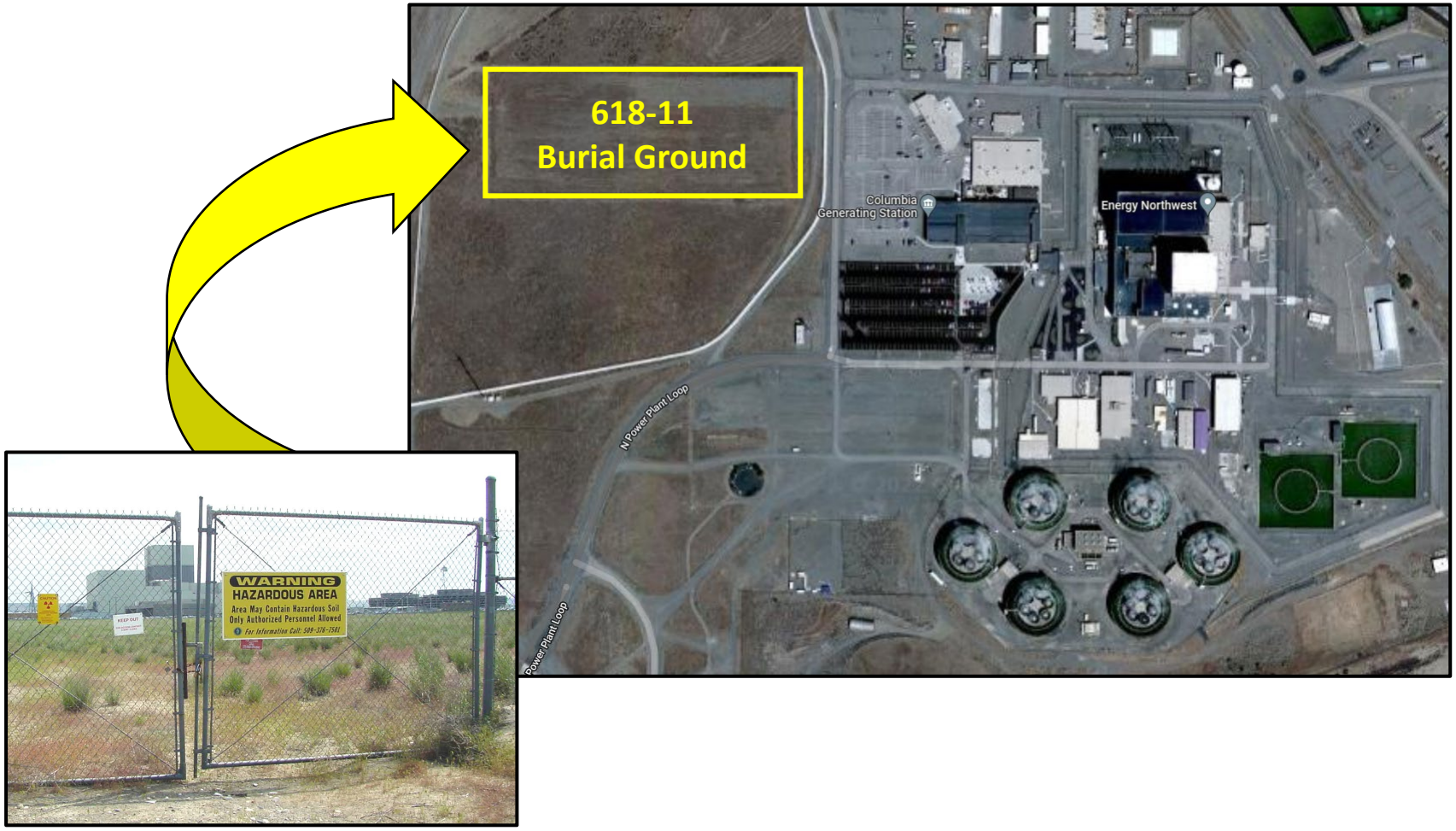


FIGURE 8 – LOCATION OF 618-11 BURIAL GROUND RELATIVE TO WNP-1 SITE