SECTION A. Project Title: Excess Facilities Deactivation and Demolition

The purpose of the proposed action is to deactivate, decontaminate, and demolish (DD&D) surplus vacant, inactivated, or soon to be inactivated facilities to reduce lifecycle costs associated with surveillance and maintenance. The proposed action would return the location of the facilities to near original condition. There is limited risk to site personnel posed by remaining hazards within these buildings and structures. Principal hazards are asbestos, lead-based paint, small quantities of hazardous materials and waste, confined spaces, and possible residual radiological contamination. The proposed action would DD&D the buildings located at the Idaho National Laboratory (INL) listed in the following table:

<table>
<thead>
<tr>
<th>Facility</th>
<th>Description</th>
<th>Construction Type</th>
<th>Active Year</th>
<th>Sq. Ft</th>
<th>Current Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Facilities (CF) Area (CFA)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CF-661 Material Staging Buildings - empty</td>
<td>Steel Frame</td>
<td>1963</td>
<td>5,917</td>
<td>Cold, Dark &amp; Dry</td>
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</tr>
<tr>
<td>CF-629 Office Building - empty</td>
<td>Steel Frame</td>
<td>1979</td>
<td>9,850</td>
<td>Cold, Dark &amp; Dry</td>
<td></td>
</tr>
<tr>
<td>CF-1605 CFA Waste Water Lab - empty</td>
<td>Steel Frame</td>
<td>1995</td>
<td>1,313</td>
<td>Cold, Dark &amp; Dry</td>
<td></td>
</tr>
<tr>
<td>CF-674 Excess Warehouse - empty</td>
<td>Masonry</td>
<td>1952</td>
<td>56,508</td>
<td>Operating</td>
<td></td>
</tr>
<tr>
<td>CF-688 Technical Center Office Building - empty</td>
<td>Masonry</td>
<td>1963</td>
<td>19,312</td>
<td>Operational Standby</td>
<td></td>
</tr>
<tr>
<td>CF-689 Technical Center Office Building - empty</td>
<td>Masonry</td>
<td>1963</td>
<td>26,795</td>
<td>Operational Standby</td>
<td></td>
</tr>
<tr>
<td>CF-686 High Bay</td>
<td>Masonry</td>
<td>1979</td>
<td>4,822</td>
<td>Operating</td>
<td></td>
</tr>
<tr>
<td>CF-601 Warehouse</td>
<td>Masonry</td>
<td>1950</td>
<td>51,951</td>
<td>Operating</td>
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</tr>
<tr>
<td>CF-663 Core Storage Building</td>
<td>Steel Frame</td>
<td>1990</td>
<td>6,160</td>
<td>Operating</td>
<td></td>
</tr>
<tr>
<td>CF-676 DOE Equipment Storage</td>
<td>Steel Frame</td>
<td>1963</td>
<td>1,475</td>
<td>Operating</td>
<td></td>
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<tr>
<td>CF-621 Multi Craft Shop</td>
<td>Steel Frame</td>
<td>1983</td>
<td>11,787</td>
<td>Operating</td>
<td></td>
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<tr>
<td>CF-622 Multi Craft Shop</td>
<td>Steel Frame</td>
<td>1985</td>
<td>10,943</td>
<td>Operating</td>
<td></td>
</tr>
<tr>
<td>CF-623 Multi Craft Shop</td>
<td>Steel Frame</td>
<td>1986</td>
<td>12,615</td>
<td>Operating</td>
<td></td>
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<tr>
<td>CF-624 Multi Craft Shop</td>
<td>Steel Frame</td>
<td>1986</td>
<td>7,986</td>
<td>Operating</td>
<td></td>
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<tr>
<td>CF-671 Boiler House</td>
<td>Masonry</td>
<td>1951</td>
<td>1,138</td>
<td>Operating</td>
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<tr>
<td>CF-664 Storage Building</td>
<td>Masonry</td>
<td>1951</td>
<td>16,385</td>
<td>Operating</td>
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<tr>
<td>CF-695 Fire Safety Equipment Storage</td>
<td>Masonry</td>
<td>1966</td>
<td>1,584</td>
<td>Operating</td>
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<tr>
<td>CF-619 Utility Building</td>
<td>Steel Frame</td>
<td>1985</td>
<td>400</td>
<td>Operating</td>
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<tr>
<td>CF-625 CFA Laboratory Building</td>
<td>Prefabricated</td>
<td>1989</td>
<td>8,797</td>
<td>Operating</td>
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<tr>
<td>CF-690 Radiological Environmental Science Lab</td>
<td>Masonry</td>
<td>1963</td>
<td>32,394</td>
<td>Operational Standby</td>
<td></td>
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<tr>
<td>Test Reactor Area (now known as Advanced Test Reactor [ATR] Complex)</td>
<td>Steel Frame</td>
<td>1968</td>
<td>2,269</td>
<td>Cold, Dark &amp; Dry</td>
<td></td>
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<tr>
<td>TRA-699 Cold Storage Building - empty</td>
<td>Steel Frame</td>
<td>1997</td>
<td>5,470</td>
<td>Operational Standby</td>
<td></td>
</tr>
<tr>
<td>TRA-689 Radiative Waste Storage - empty</td>
<td>Concrete</td>
<td>1996</td>
<td>2,166</td>
<td>Cold, Dark &amp; Dry</td>
<td></td>
</tr>
<tr>
<td>Test Area North (TAN)</td>
<td>Masonry</td>
<td>1954</td>
<td>2,995</td>
<td>Operating</td>
<td></td>
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<tr>
<td>TAN-601 Guard House - empty</td>
<td>Masonry</td>
<td>1996</td>
<td>2,166</td>
<td>Cold, Dark &amp; Dry</td>
<td></td>
</tr>
</tbody>
</table>

After World War II, the INL was designated as a nuclear test site and the buildings identified above were built to support the post war mission. In the early 1950s, the Central Facilities Area (CFA) was established as the main service and support facility for nuclear programs conducted at other INL facility locations. Today, services provided at CFA consist of support activities that include transportation, maintenance, security, fire protection, warehouses, calibration laboratories, and cafeteria.

The proposed action would perform the following activities:

- Characterize facilities, including waste stream determinations and project development.
- Prepare project sites, including mobilization and staging of equipment and trailers, installation of electrical connections, and surface improvements, as necessary.
- Isolate and/or remove building utilities, including underground piping and utility lines, potable water, firewater, sewer, electrical, communication, ventilation, life safety, and steam lines, minor re-routes of utilities may be necessary, major re-routes would be addressed separately.
- Remove and manage all radiological contamination.
- Remove remaining building equipment, such as pumps, tanks, boilers, light fixtures, electrical panels and switch boxes, appliances, and cabinets.
- Remove entire building structures, including concrete footers/piers to 3 ft below grade, wooden structural components, walls, structural steel, and roofing. Below grade structures and intact concrete slabs will remain in place if deemed appropriate.
- Dispose and/or recycle/reuse all removed building components and equipment when practical or feasible.
- Grade the site to match the surrounding contour and ground cover (such as lawn, gravel, or native vegetation) and control wind and water erosion.

In characterizing these facilities, the project would only look for lead in the soil if there is evidence that soil contamination has occurred. Project personnel do not expect to take soil samples, unless stains, unfamiliar odors, or other signs of a spill or contamination are present during D&D.
Collection of samples for chemical and radiological analyses would be performed to provide data necessary to minimize health and safety risk to D&D project workers and for developing and completing hazardous waste determinations for waste dispositions. Off-Site laboratories may be used to perform analyses of samples collected.

The total estimated cost for performing DD&D activities at these thirteen facilities is $10.185M. The schedule for completing these activities is dependent upon the funding made available annually.

### SECTION C. Environmental Aspects or Potential Sources of Impact:

#### Air Emissions:
Project activities may generate fugitive dust as the result of structural demolition, soil disturbance, and excavation activities. The limited nature of radiological contamination present means there would be a very low probability of any radiological emissions from such sources. Combustion equipment such as generators, portable heaters, ventilation equipment, and heavy equipment fueled with diesel would be used during D&D operations. The proposed demolition activities will not include on-site construction activities of an emissions unit which are of permanent nature.

There is a possibility that materials containing asbestos could be disturbed. All work on asbestos containing building materials would be performed by properly trained personnel. If the scope of work specified in the work package identifies an amount of regulated asbestos-containing material (RACM) to be removed that equals or exceeds the threshold quantity (260 linear feet on pipes / 160 square feet on other facility components / 35 cubic feet on facility components where the length or area could not be measured previously) specified in 40 Code of Federal Regulation (CFR) 61.145, contact the Asbestos Coordinator and provide the necessary information for completion of a 10-Day Demolition or Renovation Notification. Ten-day notifications are required for all demolitions, even if asbestos is absent. Examples of asbestos containing materials that may remain include floor tiles, mastics, insulation within fire doors, roofing materials, and piping gaskets. Project personnel will properly manage RACM in compliance with the asbestos National Emission Standard for Hazardous Air Pollutant (NESHAP) regulations during removal, transport, and disposal. Instructions provided in Laboratory-Wide Procedure (LWP)-8000 Section 4.3 will be implemented where applicable.

#### Discharging to Surface-, Storm-, or Ground Water:
The project would involve excavation and potential disruption of existing drainage patterns. Prior to initiating any activity that could cause contamination of a drinking water system, such as isolating components of the drinking water system and while using drinking water for dust suppression, DD&D will consider protection of the wells and potable water supply.

#### Disturbing Cultural of Biological Resources:
The project includes the demolition of CFA facilities constructed during the INL’s Historic Period of Significance (1942-1970) which are eligible for listing on the National Register of Historic Places. These facilities include CF-661, CF-674, CF-688, CF-690, TRA-669, and TAN-601. The proposed project will adversely impact these historic properties. Prior to beginning work, obtain cultural/historical resource review by contacting Julie Braun Williams (526-0926). All instructions provided by the Cultural Resources Management Office must be followed. Approval must be demonstrated by written communication from this organization prior to beginning work, and any instructions contained in the review must be followed.

Project activities would not directly impact wildlife or their habitat, but would have potential impacts due to disturbing soil. Project personnel would implement Plan (PLN)-611, “Noxious Weed Management Plan” to control the spread of noxious weeds.

#### Generating and Managing Waste:
The project may generate hazardous or mixed waste, including components and materials that contain lead, cadmium, and mercury, such as fusible links (sprinkler heads), lead packing on piping, mercury switches, and fluorescent lamps. Based on historical operations, there is the potential to generate both waste streams. A hazardous waste determination would be performed for all waste streams to develop the appropriate management practices and identify disposal paths. Waste streams would be evaluated to determine if any of these materials can be recycled or reused and would be evaluated to implement actions for minimizing waste entering the landfill. Waste Generator Services would characterize all solid wastes. If hazardous or mixed waste is generated, it would be segregated, packaged, and stored in a temporary waste management area or a permitted area until it is transported to an off-site permitted disposal facility. The proposed action would generate industrial waste in the form of concrete and structural steel, with additional waste coming from corrugated metal siding, wood framing, gypsum board, and scrap metal. The industrial waste stream would be evaluated for recycling/diversion opportunities and materials not recycled or diverted would disposed of at the INL Landfill Complex. Asbestos containing material consisting of both friable and non-friable asbestos-containing materials would be generated and would be disposed of at the INL Landfill Complex (asbestos portion). CFA-690 may contain residual radiological contamination (both fixed and loose), and this waste would be characterized and disposed in accordance with established procedures.

Because of the age of the buildings, polychlorinated biphenyls (PCBs) may be present in painted surfaces and possibly other materials such as wiring, electrical cable insulation, components, light ballasts, contaminated fixtures, and hydraulic and dielectric fluids. PCBs may also be present in waste residues within tanks, pumps, piping, floor trenches, sumps, and other components. Any materials that contain PCBs may also be present above the threshold limit of 50 ppm and would be managed in compliance with 40 CFR 761 Subpart D. Project personnel would notify Environmental Support & Service personnel of PCBs found during DD&D activities.

The contents of all septic systems would be characterized, pumped, and disposed based on characterization results.
Releasing Contaminants: Portions of the facility equipment and components contain asbestos-containing material, both friable and non-friable. Examples of the materials may include floor tiles, mastics, insulation within fire doors, roofing materials, and piping gaskets.

Using, Reusing, or Conserving Natural Resources: DD&D activities would require the use of various chemicals, including fuels (gasoline and diesel), sealants, adhesives, fixatives, and paints. Project activities would remove building structural components, including possibly lead and equipment. All materials will be reused and/or recycled where economically practicable. All applicable waste will be diverted from disposal in the landfill where conditions allow. New equipment will meet either the Energy Star or Significant New Alternatives Policy (SNAP) requirements as appropriate (see http://www.sftool.gov/GreenProcurement/ProductCategory/14). In addition, the project will practice sustainable acquisition, as appropriate and practicable, by procuring construction materials that are energy efficient, water efficient, are bio-based in content, environmentally preferable, non-ozone depleting, have recycled content, or are non-toxic or less-toxic alternatives.

SECTION D. Determine the Recommended Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B, give the appropriate justification, and the approval date.

For Categorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, or similar requirements of DOE or Executive Orders; 2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment or facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; 4) have the potential to cause significant impacts on environmentally sensitive resources (see 10 CFR 1021). In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action, and the action is not “connected” nor “related” (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.

References: National Environmental Policy Act (NEPA) Implementing Procedures, Final Rule. 10 CFR 1021 Appendix B to Subpart D, Categorical Exclusion B1.23 "Demolition and disposal of buildings"

Justification: Project activities in this EC are consistent with 10 CFR Appendix B to Subpart D, Categorical Exclusion B1.23 "Demolition and subsequent disposal of buildings, equipment, and support structures (including, but not limited to, smoke stacks and parking lot surfaces), provided that there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment."

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act) ☐ Yes ☒ No

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on: 11/05/2013