

FACILITY MODIFICATION PERMIT

Pacific Northwest National Laboratory

(Reference - Facility Design: Preparations, Drawing, Control, and Implementation, Section 13.0)

1. SR No	EDP	R	FMP	ECN
S421488	-01	-0	-01	-00

2. Date	Page
May 24, 2000	1 of 2

See Facility Modification Permit Form Instructions

3. Requested by DR Brawn	4. Design Engineer JE Burris	5. Project Manager DR Brawn/JE Burris	6. Project Field Representative JE Burris/JL Massey
7. Project/Cost Code Number S421488/R10901	8. Change Class N/A	9. Safety Class Yes [] No [X]	10.
11. Changes Included: <input type="checkbox"/> Excavation <input type="checkbox"/> Structure <input checked="" type="checkbox"/> Outdoor Utilities <input checked="" type="checkbox"/> Building Systems <input type="checkbox"/> Essential Systems			12. Location 3020 (EMSL)/3553, Roof
13. Description of Work (may be continued on page 2) Installation of heat trace and insulation on stack sampling line for radioisotope exhaust system.		Estimated Cost \$12,000	Funding Source DOE B&U

14. Drawings/Other Design Documents Required:
 H-3-70282, sheet 1 of 2, revision 8
 Sketch WS3553-001-S1

15a. Hazardous/Sensitive Building Occupancy? No Yes (Explain in Block 22)

15b. Unreviewed Safety Questions? No Yes (Explain in Block 22)

15c. Special Instructions? No Yes (Explain in Block 24)

Special Notes: 1. This permit valid for work started within 90 days of approval. It does not constitute funding approval or validity. 2. The Project Field Representative is responsible for assuring that design/field changes comply with the intent of this permit and for notifying affected property custodian prior to the removal, transfer, excess, salvage or scrapping of material.

16. SPECIAL PERMITS AND REQUIREMENTS (Place an "X" in boxes that apply.)

Excavation Permit	<input type="checkbox"/>	Radiation Work Permit	<input type="checkbox"/>	Additional QA Requirements	<input type="checkbox"/>
Outdoor Utility Outage	<input type="checkbox"/>	Cultural Resources Review	<input type="checkbox"/>	PAAA and 10 CFR 830.120 Subject Areas	<input type="checkbox"/>
Other Landlord Approval	<input type="checkbox"/>	Environmental Checklist	<input checked="" type="checkbox"/>	Apply (Explain in Block 25).	
Richland Building Permit	<input type="checkbox"/>	Plant Forces Work Review	<input checked="" type="checkbox"/>		
Building System Outages	<input type="checkbox"/>	Welding, Cutting, Grinding, Open Flame	<input type="checkbox"/>		

17. APPROVAL TO PERFORM WORK

Project Manager <i>JE Burris</i> 5/31/00	<input checked="" type="checkbox"/> Waste Management <i>JE Burris</i> 4/5/00	<input type="checkbox"/> UG Util Landlord	Date	<input type="checkbox"/> Security	Date
Building Engineer <i>William Billen</i>	<input type="checkbox"/> Quality Programs	<input type="checkbox"/> Elec/Util Landlord	Date	<input type="checkbox"/> Facility Space Mgmt	Date
<input checked="" type="checkbox"/> Building Manager <i>Steve Higgins</i> 6-1-00	<input checked="" type="checkbox"/> ES&H <i>JE Burris</i> 6/1/00	18. AUTHORIZED (Right to rescind reserved)		Date <i>JE Olson</i> 6/6/00 Chief Engineer	

19. Distribution:

Xc: MA Covert, K8-95, 1
 DR Brawn, K8-95, 1 JE Burris, K8-95, 1

Additional Approvals:

Independent Review <i>L.A. Luce</i> 6/1/2000	Fire Protection Engr. <i>MM Jorgensen</i> 6-2-00	Facility Project Manager <i>JE Burris</i> 6-1-00
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May 24, 2000	2 of 2

20. Commissioning and Turnover (Requirements and Documentation to be completed prior to SSC being placed in service or project closeout as applicable).

- | | | |
|---|--|---|
| <input type="checkbox"/> Operations Readiness Review (PNL-MA-970) | <input checked="" type="checkbox"/> Functional Test | <input checked="" type="checkbox"/> As-Builts (list in block 26.) |
| <input type="checkbox"/> Readiness Assessment (PNL-MA-970) | <input checked="" type="checkbox"/> Preventive Maintenance Procedures (PM) | <input type="checkbox"/> Area Maps Affected |
| <input type="checkbox"/> Acceptance Test Procedure | <input type="checkbox"/> Safe Operating Procedures (SOP) | <input type="checkbox"/> Vendor Information (Manuals) |
| <input type="checkbox"/> Start-up Procedure | <input type="checkbox"/> Training | <input type="checkbox"/> Other: _____ |

21. Description (continued)

- Disconnect existing circuit GL12-31 from sampling pump enclosure at termination block at the top of the panel and remove the wires back to the receptacle on the north wall of EMSL 3553 as shown on sketch WS3553-001-S1.
- Extend circuit EDL21-8 from receptacle on south wall of EMSL 3553 to sampling pump enclosure. Reuse existing conduit and junction boxes where possible. Install 2#12 & 1 #12 GND in 3/4 EMT. Connect to termination block at the top of the enclosure where the wires were previously removed.
- Install unistrut support frame inside of decorative grid at approximately 3'-0" above roof deck and install new receptacle, toggle switch and heat trace cable on roof. Install 1/2" EMT from existing receptacle through existing penetration and to new receptacle, toggle switch and heat trace cable on roof. All parts shall be as shown on H-3-70282, sheet 1, revision 8, for these installations and shall be installed per manufacturer's written instructions and the general notes on this drawing.
- Install 2#12 & 1 #12 GND from panel GL13, circuit #9 to new roof mounted equipment and make connections as shown on sketch WS3553-001-S1
- Insulate sampling tube with insulation specified on H-3-70282, sheet 1, revision 8..

22. Hazardous/Sensitive Occupancy/Unreviewed Safety Question

Inform Effluent Monitoring prior to taking system out of service, even if it was not activated at the time of the work.

23. General Instructions:

- Notify and obtain Building Manager concurrence before starting work.
- Notify Project Field Representative immediately of any system or utility damage.

24. Special Instructions to be included in the work plans (include SSCs listed in the FUA, Section IV.III requiring controlled operation and/or special instructions included in the FUA required to maintain the facility operational boundary).

Labeling of junction boxes and devices is required. Replace panel schedules with revised panel schedules.

25. PAAA and 10 CFR 830.120 (Identify part or item of the work to which they apply.)

26. Drawing to be As-Built
H-3-71345

27. Affected Related Drawings

28. Other Affected Documents (List document number, title, revision number, and date):

MCL will be required to verify operation of heat trace annually.

29. WORK ACCEPTED

Building Engineer	Date	<input checked="" type="checkbox"/> Design Engineer	Date	Date
Building Manager	Date	<input type="checkbox"/> Project Manager	Date	Date
<input type="checkbox"/> Project Field Rep.	Date	<input type="checkbox"/> Facility Space Mgmt	Date	Date

30. AS-BUILTS

As-Builts Complete	Date
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