

# ENGINEERING DESIGN PLAN: FORM B

(FOR ROUTINE NONSAFETY CLASS SSCs)  
(Ref.: PNL-MA-44)

SR No S421488 EDP -01 R -00

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**Engineering and design documents shall be prepared, reviewed, approved, and used in accordance with SBMS for Creating and Modifying Engineering Calculations, Drawings and Specifications**

**A. PROJECT TITLE / DESCRIPTION**

Stack Sampling Piping Heat Tape Installation

**B. PROJECT/WP. NO.**

S421488

**PROJECT/TASK QA PLAN NO.**

QA Plan Number FO-025; Eng. and Des. Activities for Plant Engineering

**C. PROJECT/ENGINEER TASK MANAGER**

JE Burris

**OTHER ACTIVITY/PROJECT MANAGEMENT DOCUMENT**

**D. SPONSOR ORG.**

Engineering Resource

**DRAFTING ORG.**

None (Sketches only)

**E. OTHER PROJECT/DOCUMENT APPROVAL AUTHORITY**

Independent Review required

**F. SAFETY CLASSIFICATION (Ref.: Safety Class Evaluation Sheet):** This project includes only non-safety class systems, structures, and components that do not perform a significant safety/programmable function or include engineered deliverables.

**G. DESIGN PREPARATION:** Place an "X" in the boxes that apply:

**1. DESIGN CRITERIA:**

National Electric Code, Facility Work Control Procedure

**2. CALCULATIONS AND ANALYSES REQUIREMENTS:**

As required by engineers during design

**3. DRAWINGS/DRAFTING REQUIREMENTS:**

D&D Drafting Checker  Other Qualified Checker

Sponsor Requirements:

DOE permanent engineering drawings (H- prefix)

DOE temporary engineering drawings (SK- prefix)

Battelle engineering drawings (R- and RSK- prefix)

Sponsor-specified numbering system

As-built drawings

Worksheets/sketches

Other:

**4. SPECIFICATIONS:**

Include on drawings  Prepare Spec. Document

**APPROVALS:**

	Signature	Date		Signature	Date
<input type="checkbox"/> Lead Engineer:			<input checked="" type="checkbox"/> ES&H	<i>H. M. ...</i>	5/26/00
<input checked="" type="checkbox"/> Plant Engineering	<i>J. P. Petten</i>	5/24/00	<input checked="" type="checkbox"/> Facility Project Manager	<i>[Signature]</i>	5/25/00
<input checked="" type="checkbox"/> Engineering Design & Drafting	<i>J. P. Petten</i>	6/1/00	<input type="checkbox"/> Process Quality		
<input type="checkbox"/> Project/Task Manager:			<input checked="" type="checkbox"/> BLDG MGR	<i>Pete Rojas</i>	5-25-00
			Line/Prod Line Manager:	<i>Pete Rojas</i>	5-25-00

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## 5. VERIFICATION METHODS:

- Independent Review                       Alternate Calculations  
 Informal Design Review                       Qualification Tests  
 On-the-Board Reviews                       Other:

## 6. CONFIGURATION MANAGEMENT AND ENGINEERING CHANGES:

- Marked Up Prints  
 Deviation and non-conformance controls  
 Change control procedure:

## 7. DRAWING/DOCUMENT CONTROL AND RECORDS

## 8. QA REQUIREMENTS:

## 9. ADDITIONAL REQUIREMENTS:

## H. DESIGN IMPLEMENTATION (Place an "X" in boxes that apply)

 1. FACILITIES/UTILITIES MODIFICATIONS: If checked, go directly to Facilities Modification Permit. If not checked, fill out rest of Section H.

## 2. WORK TO BE PERFORMED Location:

Description       Shop Work Only       Field Work

## 3. DESIGN DOCUMENTS (List by No. &amp; Rev.):

## 4. AUTHORIZATION FOR SHOP/FIELD WORK: (authorized by)

 Work Package Authorization:       Work Order:

## 5. REQUEST AND STATEMENT OF WORK:

 Letter of Instruction (LOI)       Statement of Work (SOW)

## 6. FIELD ENGINEER:

## 7. WORK TO BE PERFORMED BY:

Onsite CPAF Contractor  
 Craft Resources                       Offsite Contractor  
 Supplier

 8. PLANT FORCES WORK REVIEW 9. REFERRAL OF PLANT FORCES WORK TO SUBCONTRACTOR 10. QA REQUIREMENTS: