S

# ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 661411

Proj. ECN

| 2. ECN Category (mark one) | 3. Originator's Name, Organization, MSIN, and Telephone No. | 4. USQ Required? | 5. Date |
|---|---|---|---|
| Supplemental [] <br> Direct Revision [x] <br> Change ECN [] <br> Temporary [] <br> Standby [] <br> Supersedure [] <br> Cancel/Void [] | T. Nuxall, CVDF, R3-86, 372-3739 | [x] Yes [] No | 7/13/00 |
| | 6. Project Title/No./Work Order No. <br> SNF/W-441 <br> Spent Nuclear Fuel <br> Cold Vacuum Drying | 7. Bldg./Sys./Fac. No. <br> CVDF <br> 142-K | 8. Approval Designator <br> $S^NQ$ |
| | 9. Document Numbers Changed by this ECN (includes sheet no. and rev.) <br> SNF-3879, Rev. 2, SNF-5953, Rev. 0 | 10. Related ECN No(s). <br> N/A | 11. Related PO No. <br> N/A |

| 12a. Modification Work | 12b. Work Package No. | 12c. Modification Work Complete | 12d. Restored to Original Condition (Temp. or Standby ECN only) |
|---|---|---|---|
| [] Yes (fill out Blk. 12b) <br> [X] No (NA Blks. 12b, 12c, 12d) | N/A | N/A <br> Design Authority/Cog. Engineer Signature & Date | N/A <br> Design Authority/Cog. Engineer Signature & Date |

13a. Description of Change

13b. Design Baseline Document? [] Yes [X] No

SC

**HOOD**

SNF-3879, Revision for clarification of testing requirements.

SNF-5953, Revised wide flange beam, material and structural square tubing, material critical characteristic acceptance criteria from "67-83 Rockwell Hardness B" to "67-83 Rockwell Hardness B or 119-159 Brinnell Hardness".

USQ Number: CVD-00-1258

14a. Justification (mark one)

| | | | |
|---|---|---|---|
| Criteria Change[] | Design Improvement[X] | Environmental[] | Facility Deactivation[] |
| As-Found[] | Facilitate Const[] | Const. Error/Omission[] | Design Error/Omission[] |

14b. Justification Details

Clarification, modification to design criteria.

The design verification method for SC/SS components is by independent review in accordance with EN-6-027-01. Documentation of this review is accomplished by the independent review approval signature provided on page 2 of this ECN.

15. Distribution (include name, MSIN, and no. of copies)

See distribution sheet.

RELEASE STAMP

DATE: JUL 13 2000

STA: 4

HANFORD RELEASE

2

A-7900-013-1

# ENGINEERING CHANGE NOTICE



1. ECN (use no. from pg. 1): 661411

| 16. Design Verification Required | 17. Cost Impact | | | | 18. Schedule Impact (days) | |
|---|---|---|---|---|---|---|
| | ENGINEERING | | CONSTRUCTION | | | |
| [X] Yes | Additional | [] $ | Additional | [] $ | Improvement | [] |
| [] No | Savings | [] $ | Savings | [] $ | Delay | [] |

19. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 13. Enter the affected document number in Block 20.

| | | | | | |
|---|---|---|---|---|---|
| SDD/DD | [] | Seismic/Stress Analysis | [] | Tank Calibration Manual | [] |
| Functional Design Criteria | [] | Stress/Design Report | [] | Health Physics Procedure | [] |
| Operating Specification | [] | Interface Control Drawing | [] | Spares Multiple Unit Listing | [] |
| Criticality Specification | [] | Calibration Procedure | [] | Test Procedures/Specification | [] |
| Conceptual Design Report | [] | Installation Procedure | [] | Component Index | [] |
| Equipment Spec. | [] | Maintenance Procedure | [] | ASME Coded Item | [] |
| Const. Spec. | [] | Engineering Procedure | [] | Human Factor Consideration | [] |
| Procurement Spec. | [] | Operating Instruction | [] | Computer Software | [] |
| Vendor Information | [] | Operating Procedure | [] | Electric Circuit Schedule | [] |
| OM Manual | [] | Operational Safety Requirement | [] | ICRS Procedure | [] |
| FSAR/SAR | [] | IEFD Drawing | [] | Process Control Manual/Plan | [] |
| Safety Equipment List | [] | Cell Arrangement Drawing | [] | Process Flow Chart | [] |
| Radiation Work Permit | [] | Essential Material Specification | [] | Purchase Requisition | [] |
| Environmental Impact Statement | [] | Fac. Proc. Samp. Schedule | [] | Tickler File | [] |
| Environmental Report | [] | Inspection Plan | [] | | [] |
| Environmental Permit | [] | Inventory Adjustment Request | [] | | [] |

20. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

| Document Number/Revision | Document Number/Revision | Document Number Revision |
|---|---|---|
| NA | | |

21. Approvals

| Signature | Date | Signature | Date |
|---|---|---|---|
| Design Authority C. Miska | 7/12/00 | Design Agent | |
| Cog. Mgr. T. Choho | 7/12/00 | QA | |
| QA R. Ramsgate for Hank M. Chaffin | 7-12-00 | Safety | |
| *Safety J. Brehm | 7/12/00 | Design | |
| Environ. N/A | | Environ. | |
| Independent Reviewer | 7/12/00 | Other | |
| | 7/12/2000 | | |

* Approval authorizes parallel preparation of USQ screen with implementation of ECN per NS-4-001.

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

ADDITIONAL

SNF-3879
Revision 3

# FISHER-HELIUM PURGE FLOW CONTROL VALVE AND RELAY

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200
**Fluor Hanford**
**P.O. Box 1000**
**Richland, Washington**

SNF-3879
Revision 3

ECN 661411

# FISHER-HELIUM PURGE FLOW CONTROL VALVE AND RELAY

Project No: W-441 Document Type: RPT Division: SNF

C Van Katwijk
FH

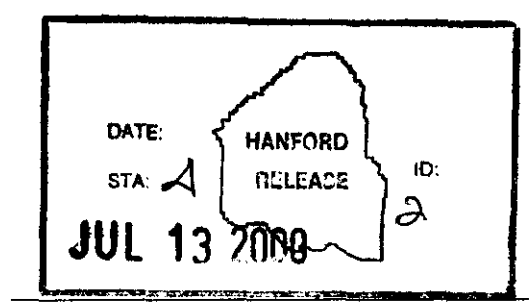
Date Published
June 2000

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

**Fluor Hanford**
**P.O. Box 1000**
**Richland, Washington**


Release Approval Date




*Release Stamp*

Total Pages: 15

SNF- 3879, rev 3

# RECORD OF REVISION

(1) Document Number: SNF-3879



(2) Title: FISHER-HELIUM PURGE FLOW CONTROL VALVE AND RELAY

Change Control Record

| (3) Revision | (4) Description of Change - Replace, Add, and Delete Pages | Authorized for Release | |
|---|---|---|---|
| | | (5) Cog. Engr. | (6) Cog. Mgr. Date |
| 0 | (7) EDT 626253, INITIAL RELEASE | J. Irwin | T. Choho |
| 1 | ECN 653776 REVISION TO MEET REV. 6 OF SEL. | C. Miska | T. Choho |
| 2 | ECN 652289, CORRECTION TO MATERIAL FOR VALVE BODY | C. Miska | T. Choho |
| RS 3 | ECN 661411, CLARIFICATION OF TESTING REQUIRED | C. Miska 7/12/00 | Ok for T. Choho per Telcon |
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# Commercial Grade Item Upgrade Dedication Form

SNF-3879, Rev. 3

ECN No. NA CGI No. CGI-SNF-D-13-P4-004

Page 1 of 11

Title: **FISHER-HELIUM PURGE FLOW CONTROL VALVE AND RELAY**

## Section 1 Part Information

| Item No.: **NA** | Manufacturer: | Supplier: |
|---|---|---|
| Mfg. Part/Model No.: | Supplier's P/N: | |
| Part Description: | | |
| End Use Description: | | |

## Section 2a Component Information

| Equipment No.: **He-FV-1*20** | Specification No.: **SNF-5303, Rev. 0 (W-441 P4, Rev. 2)** | Manufacturer: **Fisher Controls** | Past P.O. No.: **NA** |
|---|---|---|---|
| Procurement and/or Model Number: **1" CP Body; Size 20 System 9000; Type DVC 5040** | Equipment Supplier (if different from manufacturer): **NA** | | Equip. Supplier's Part No.: **NA** |

Component Description: **Fisher flow control valve for helium purge flow to the MCO.**

## Section 2b Commercial Availability of the Item

1. Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)

   [ ] YES (go to #2 below)

   [X] NO (go to procedure step 5.3.2, proceed to dedicate Item.)

   If not available from a qualified NQA1 supplier, is it available from an ISO 9000 supplier? (coordinate with project CGI interface Engineer or BTR)

   [ ] YES (go to #2 below, then go to procedure step 5.3.2, proceed to dedicate Item)

   [X] NO (go to procedure step 5.3.2, proceed to dedicate Item.)

2. List of Candidate qualified suppliers or ISO 9000 suppliers

   company name & type contact name phone

   **NA**

3. Recommended Procurement Strategy(coordinate with project CGI interface Engineer or BTR):

   **NA**

## Section 2c CGI Determination

1. Question #1: Is the Item subject to design or specification requirements that are unique to nuclear facilities or activities?

   [ ] YES (the Item is not commercial grade)

   [X] NO (continue)

2. Question #2: Is the Item used in applications other than nuclear facilities or activities?

   [ ] NO (the item is not commercial grade)

   [X] YES (continue)

3. Question #3: Is the Item ordered from manufacturer/supplier on the basis or specifications set forth in the published product information (e.g., manufacturer's catalog)?

   [ ] NO (the Item is not commercial grade)

   [X] YES (continue)

[X] **All three criteria have been satisfied. The Item meets the definition of commercial grade.**

| Section 2d Reason for Dedication<br>The above described Item is being Dedicated for use in the application cited for the following reason(s): |
|---|
| [ X ] Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application. |
| [ ] Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application. |
| [ ] Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application. |
| [ ] Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application. |
| [ ] Other ('like-for-like', similar, substitution, replacement evaluation) |

**Section 3 Failure Effects Evaluation**

A. Part/Component Safety Function:

1. **Provide Pressure Boundary**
2. **Provide 3/1 Protection for Adjacent SC and SS SSCs**
3. **Provides Back Pressure to Maintain He Flow Indication**

B. Part/Component Functional Mode:

Safety Function #1:

[ ] Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function

[ X ] Passive – Change of state is not required for the component to perform its safety function

Safety Function #2:

[ ] Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function.

[ X ] Passive – Change of state is not required for the component to perform its safety function

Safety Function #3:

[ ] Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function.

[ X ] Passive – Change of state is not required for the component to perform its safety function

C. Host Component Safety Function (if applicable): **NA**

1.

D. Failure Mode(s) and the effects on component or system safety function (see Worksheet 1):

1. **FV Flange Connection/Body Break - Inleakage of Air**
2. **Back Pressure Not Maintained for He Flow Indicator**

| Section 4 Environmental & Natural Phenomena Hazard Design | |
|---|---|
| Environmental Qualification Required:<br>Yes [ ]<br>No [ **X** ]<br>**Environmental Condition B** | If yes: Environmental Qualification Requirements<br>Limiting Environmental Conditions:<br>Required Safety Functions:<br>Qualification Period: |
| Natural Phenomena Hazard (NPH) Design Required:<br>Yes [ **X** ]<br>No [ ]<br>**HNF-PRO-97, Rev. 0**<br>**W-441 P4, Rev. 2** | If yes: NPH Design Requirements<br>Performance Category: **PC-1**<br>NPH Design Req'ts.: **3/1 Protection for adjacent SC and SS SSCs**<br>Required Safety Functions: **Boundary/Back pressure for instruments** |

| Section 5 Component Functional Classification | | |
|---|---|---|
| [ **X** ] Safety Class (SC) | [ ] General Service | [ ] Safety Significant (SS) |
| If part/component classification is different from host component/system, document basis.<br>**He-FV-1*20 is Safety Class (SC).** | | |
| Section 6 (Reserved) | | |
| Section 7 (Reserved) | | |
| Section 8 References (for Functional Classification) | | |
| National Codes/Standards:<br>**He-FV-1*20 - ASME B 31.3** | Safety Analysis Report (SAR):<br>**HNF-3553, Rev. 0a, Annex B** | Drawings: **H-1-82161, Rev. 2**<br>**HNF-SD-SNF-SEL-002, Rev. 6A** |
| Vendor Manual/Manufacturer/Supplier Information: **Fisher Controls** | | |
| Other: | | |

**Section 9 Critical Characteristics**

| Critical Characteristics Verification Document: **Vendor Specifications; HNF-SD-SNF-SEL-002, Rev. 6A** | Acceptance Criteria/Tolerances | Acceptance Method | ID | Function |
|---|---|---|---|---|
| 1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified) | | | | |
| **Nameplate - Manufacturer** | **Fisher Controls** | **1, IN** | **X** | |
| **Component Number-Procurement and/or Model Number** | **1" CP Body; Size 20 System 9000; Type DVC 5040, (Per Procurement Package W-441-P4, Rev. 2, Section H, Design Data Sheet)** | **1, IN** | **X** | |
| **Inlet/Outlet Fittings** | **1" Schedule 40 Pipe, 150# RF Flange** | **1, IN** | **X** | |
| **Actuator Model Number** | **System 9000 120** | **1, IN** | **X** | |
| | | | | |
| 2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified) | | | | |
| **Body Material** | **WCC Steel (Note 4)** | **1, IN<br>1, T** | **X** | |
| 3. Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s)) | | | | |
| **Pressure Boundary** | **Pressure Test at 165 psig (No Bubbles) Note 3** | **1, T** | | **X** |
| **Flow Performance** | **Nominal 11 scfm with 20 psig supplied to open valve** | **1, T** | | **X** |
| **Environmental** | **Note 1** | | | |
| **Seismic Condition 3/1 Event** | **Note 2** | | | |

4. Notes and Legend:

1. **This FV has Teflon Packings. The Teflon is not subject to degradation at 40°F and 60% RH or 115°F and 22% RH and is suitable for Condition B Applications.**
2. **Seismic 3/1 Event is not a critical characteristic for the dedication of the component.**
3. **Pressure test at 110% of design accident condition pressure of 150 psig.**
4. **Material verification acceptance method may be by either inspection or test.**

Acceptance Method:

1. Special Test and Inspection
   1, IN for Inspection
   1,T for Test
2. Commercial Grade Survey
3. Source Verification
4. Vendor/Item History

**Section 10 Initial Review and Approval**

Approvals:
Designated Engineer: 2/12/00
Design Authority: 6/27/00
QA Engineer: 6/28/00

**WORKSHEET 1**
**DETERMINATION OF FAILURE MECHANISMS/MODES**
**SECTION 1**

| Typical Failure Mechanisms | Definition | Applicable to Component under Evaluation |
|---|---|---|
| Fracture | Separation of a solid accompanied by little or no macroscopic plastic deformation. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Corrosion | The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Erosion | Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Open Circuit | An electrical circuit that is unintentionally broken so that there is no complete path for current flow. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Short Circuit | An abnormal connection by which an electrical current is connected to ground, or to some conducting body, resulting in excessive current flow. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Blockage | Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Seizure | Binding of a normally moving item through excessive pressure, temperature, friction, jamming. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Unacceptable Vibration | Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Loss of Properties | A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Excess Strain | Under the action of excessive external forces the material of the part has been deformed or distorted. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Mechanical Creep | From prolonged exposure to high temperature and stress, the object will show a slow change in its physical (shape and dimension) and mechanical characteristics. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |
| Ductile Fracture | Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation. | Yes [ ] No [ X ]; If Yes, indicate failure Mode |

Section 2 Additional Failure Modes Applicable to the Component Under Evaluation

1. **Flange Connection/Valve Body Break**

## CHECKLIST 1
## ACCEPTANCE METHOD 1
## SPECIAL TEST/INSPECTION VERIFICATION

| SECTION 1 | |
|---|---|
| Item Description: **Fisher-Helium Purge Flow Control Valve**<br>System #: **13** | Equip #: **He-FV-1*20**<br>Procurement and/or Model #: **1" CP Body; Size 20 System 9000; Type DVC 5040** |
| Manufacturer (Address/Phone):<br>**Fisher Controls**<br><br>P.O. # | Supplier (Address/Phone): |

**SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.**

| Insp | Test | Post-Test | |
|---|---|---|---|
| [ X ] | [ ] | [ ] | **1. Nameplate - Manufacturer** |
| [ X ] | [ ] | [ ] | **2. Component Number - Procurement and/or Model Number** |
| [ X ] | [ ] | [ ] | **3. Inlet/Outlet Fittings** |
| [ X ] | [ ] | [ ] | **4. Actuator Model Number** |
| [ X ] | [ X ] | [ ] | **5. Body Material (Verification may be by either inspection or test)** |
| [ ] | [ X ] | [ ] | **6. Pressure Boundary** |
| [ ] | [ X ] | [ ] | **7. Flow Performance** |

**SECTION 3 BY INSPECTION**

* See Attachment G of Desk Instruction for Sampling Size

Characteristic: **Nameplate - Manufacturer**

Sample Size*: **All Items**

Acceptance Criteria: **Fisher Controls**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Component Number-Procurement and/or Model Number**

Sample Size*: **All Items**

Acceptance Criteria: **1" CP Body; Size 20 System 9000; Type DVC 5040, (Per Procurement Package W-441-P4, Rev. 2, Section H, Design Data Sheet)**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Inlet/Outlet Fittings**

Sample Size*: **All Items**

Acceptance Criteria: **1" Schedule 40 Pipe, 150# Flange**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Actuator Model Number**

Sample Size*: **All Items**

Acceptance Criteria: **System 9000 120**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Characteristic: **Body Material**

Sample Size*: **Normal Sampling Size**

Acceptance Criteria: **WCC Steel**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

| SECTION 4 BY SPECIAL TEST | |
|---|---|
| * See Attachment G of Desk Instruction for Sampling Size | |
| Test To Be Performed by:<br>[ ] Purchaser<br>[ ] Supplier/Manufacturer**<br>[ ] Other | Number of Items to be Tested:<br>Test/Inspection Location: |
| Characteristic for Test: **Pressure Boundary**<br>Acceptance Criteria: **Pressure Test at 165 psig (No Bubbles)**<br>Sample Size*: **Normal Sampling Size**<br>Actual Test Value:<br>Test Plan and Report #: _____ References (see Section 8): _____ | |
| Characteristic for Test: **Flow Performance**<br>Acceptance Criteria: **Nominal 11 scfm with 20 psig supplied Helium to open valve**<br>Sample Size*: **Normal Sampling Size**<br>Actual Test Value:<br>Test Plan and Report #: _____ References (see Section 8): _____ | |

**If Supplier/Manufacturer or Other, Refer to CGI Checklist-2 for Support Information

## SECTION 5 TEST / INSPECTION SUMMARY (Acceptance Method 1)

### 1. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS , THEIR VERIFICATION METHODS, AND RESULTS

**ITEM DESCRIPTION:**

| Critical Characteristics | | | | Verification Results | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Critical Characteristics | Acceptance Criteria/Tolerances | ID | Function | Method T/IN | Procedure or RR# | Check-list ID | Number Tested | Number Failed | Verifying Organization | Printed Name Signature | Date |
| Nameplate - Manufacturer | Fisher Controls | X | | | | | | | | | |
| Component Number-Procurement and/or Model Number | 1" CP Body; Size 20 System 9000; Type DVC 5040, (Per Procurement Package W-441-P4, Rev. 2, Section H, Design Data Sheet) | X | | | | | | | | | |
| Inlet/Outlet Fittings | 1" Schedule 40 Pipe, 150# Flange | X | | | | | | | | | |
| Actuator Model Number | System 9000 120 | X | | | | | | | | | |
| Body Material | WCC Steel | X | | | | | | | | | |
| Pressure Boundary | Pressure Test at 165 psig (No Bubbles) | | X | | | | | | | | |
| Flow Performance | Nominal 11 scfm with 20 psig supplied Helium to open valve | | X | | | | | | | | |

| 2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS | |
|---|---|
| **Critical Characteristic** | **Disposition** |
| | |
| | |

**3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.**

| | BUYER VERIFICATION |
|---|---|
| Testing Agency Approval:_____ Date_____ | Design Authority:_____ Date_____ |
| Testing Agency QA Engineer:_____ Date_____ | QA Engineer:_____ Date_____ |

| SECTION 6 CONTACTS/PHONE NUMBERS | |
|---|---|
| Name | Phone |
| Design Authority | ( ) |
| QA | ( ) |
| QC | ( ) |
| Cog - Engineer | ( ) |
| CGI Engineer | ( ) |
| Procurement Engineer | ( ) |
| Other | ( ) |

| SECTION 7 SUPPORTING DOCUMENTATION FOR THIS CHECKLIST | |
|---|---|
| **Initial Procurement Documents** | **For Critical Characteristics** |
| [ ] Drawings: | |
| [ ] Manuals (specify type & number): | |
| [ ] Design Calculations | |
| [ ] Installation Instructions | |
| [ ] Operation Instructions | |
| [ ] Calibration Instructions | |
| [ ] *Manufacturer's Recommended Spare Parts List* | |
| [ ] **Other:** | |
| **Procurement Documents** | |
| [ ] Certificate of Conformance/Compliance | |
| [ ] Seismic Qualification Certificate | |
| [ ] Environmental Qualification Certificate | |
| [ ] Test Report (s): | |
| [ ] Inspection Report (s): | |
| [ ] CMTRs for ASME Pressure Retaining Materials | |
| [ ] Valve Seat Leakage Report | |
| [ ] Weld Records | |
| [ ] Material Traceability Record | |
| [ ] **Other:** | |

# DISTRIBUTION SHEET

| To | From | Page 1 of 1 |
|---|---|---|
| Distribution | SNF-CVD | Date 7/13/00 |
| Project Title/Work Order<br>W-441, CGI Package P4-004 and C1-057 | | EDT No. NA<br>ECN No. 661411 |

| Name | MSIN | Text With All Attach. | Text Only | Attach./ Appendix Only | EDT/ECN Only |
|---|---|---|---|---|---|
| D. Whitehurst | X3-78 | x | | | |
| G. Singh | X3-78 | x | | | |
| CVD Library | X3-78 | x | | | |
| R. Ramsgate | X3-78 | x | | | |
| J. Brehm | X3-79 | x | | | |
| P. Beaudet | S8-07 | x | | | |
| P. Morrell (AVS) | G1-50 | x | | | |
| M. Evarts (AI) | N1-29 | x | | | |
| L. Price | R3-26 | x | | | |
| SNF Startup | B2-64 | x | | | |
| SNF Project Files | R3-11 | x | | | |
| SNF Satelite Library | X3-25 | x | | | |
| C. Van Katwijk | R3-47 | x | | | |
| D. Whitworth | R3-11 | x | | | |
| T. Nuxall | X3-78 | x | | | |
| C. Miska | X3-78 | x | | | |
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