

# START

## ENGINEERING CHANGE NOTICE

CECM 0035790

1. ECN 105403

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Proj.  
ECN

## 2. ECN Category (mark one)

- Supplemental
- Direct Revision
- Change ECN
- Temporary
- Supersedeure
- Discovery
- Cancel/Void

## 3. Originator's Name, Organization, MSIN, and Telephone No.

DH Shuford, PUREX Systems &amp; Technology, S6-01, 3-5336

## 4. Date

June 6, 1989

## 5. Project Title/No./Work Order No.

KP PUREX Chemical Processing

## 6. Bldg./Sys./Fac. No.

202-A

## 7. Impact Level

2

## 8. Document Number Affected (include rev. and sheet no.)

SD-HS-SAR-001, Rev 5

## 9. Related ECN No(s).

105276

## 10. Related PO No.

N/A

## 11a. Modification Work

- Yes (fill out Blk. 11b)
- No (NA Blks. 11b, 11c, 11d)

## 11b. Work Package Doc. No.

N/A

## 11c. Complete Installation Work

N/A

Cog. Engineer Signature &amp; Date

## 11d. Complete Restoration (Temp. ECN only)

N/A

Cog. Engineer Signature &amp; Date

## 12. Description of Change

Revise ECN 105276, Pages 3, 4, and 5 as follows:

Change 1: Page 2, Change 2, 3rd Bullet and Page 4, Change 2, 1st Bullet: Replace "Chief, Nuclear and Facility Safety" with "Safety Duty Officer."

Change 2: Page 3, Change 2, 5th Bullet and Page 4, change 2, 5th Bullet: Replace "Defense Production" with "Operations."

Change 3: Page 5 Change 10:

o Replace "11.3.3.4" with "11.3.4.4"

o Revise the bracketed Exceptions statement as follows:

[Exceptions: 1) Tritium is not included. 2) Interim Concentration Values (ICV) have been established for specific radionuclides contained in the specific waste streams and will be followed until Best Available Technology (BAT) is implemented.]

o Move the sentence "In all cases ALARA will be practiced." to the end of the paragraph.

**APPROVED FOR  
PUBLIC RELEASE**

## 13a. Justification (mark one)

- Criteria Change
- Design Improvement
- Environmental
- As-Found
- Facilitate Const.
- Const. Error/Omission
- Design Error/Omission

## 13b. Justification Details

These revisions are necessary to incorporate DOE-RL comments regarding ECN 105276 as referenced in Letter, J. R. Hunter to President, Westinghouse Hanford Company, "Transmittal of Engineering Change Notice #105276, Revisions to PUREX Final Safety Analysis Report, Chapter 11.0, Operational Safety Requirements," June 6, 1989.

Additional justification details are given on Page 3 of 3.

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

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## RELEASE STAMP

OFFICIAL RELEASE   
BY WHC

DATE JUN 26 1989

Sta # 1

015  
617716



# ENGINEERING CHANGE NOTICE

Page 2 of 3

1. ECN (use no. from pg. 1)  
**105403**

**15. Design Verification Required**

- Yes  
 No

**16. Cost Impact**

ENGINEERING

- Additional  \$ N/A  
Savings  \$ N/A

CONSTRUCTION

- Additional  \$ N/A  
Savings  \$ N/A

**17. Schedule Impact (days)**

- Improvement  N/A  
Delay  N/A

**18. 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 12. Enter the affected document number in Block 19.

<p>SDD/DD <input type="checkbox"/></p> <p>Functional Design Criteria <input type="checkbox"/></p> <p>Operating Specification <input type="checkbox"/></p> <p>Criticality Specification <input type="checkbox"/></p> <p>Conceptual Design Report <input type="checkbox"/></p> <p>Equipment Spec. <input type="checkbox"/></p> <p>Const. Spec. <input type="checkbox"/></p> <p>Procurement Spec. <input type="checkbox"/></p> <p>Vendor Information <input type="checkbox"/></p> <p>OM Manual <input type="checkbox"/></p> <p>FSAR/SAR <input type="checkbox"/></p> <p>Safety Equipment List <input type="checkbox"/></p> <p>Radiation Work Permit <input type="checkbox"/></p> <p>Environmental Impact Statement <input type="checkbox"/></p> <p>Environmental Report <input type="checkbox"/></p> <p>Environmental Permit <input type="checkbox"/></p>	<p>Seismic/Stress Analysis <input type="checkbox"/></p> <p>Stress/Design Report <input type="checkbox"/></p> <p>Interface Control Drawing <input type="checkbox"/></p> <p>Calibration Procedure <input type="checkbox"/></p> <p>Installation Procedure <input type="checkbox"/></p> <p>Maintenance Procedure <input type="checkbox"/></p> <p>Engineering Procedure <input type="checkbox"/></p> <p>Operating Instruction <input type="checkbox"/></p> <p>Operating Procedure <input type="checkbox"/></p> <p>Operational Safety Requirement <input type="checkbox"/></p> <p>IEFD Drawing <input type="checkbox"/></p> <p>Cell Arrangement Drawing <input type="checkbox"/></p> <p>Essential Material Specification <input type="checkbox"/></p> <p>Fac. Proc. Samp. Schedule <input type="checkbox"/></p> <p>Inspection Plan <input type="checkbox"/></p> <p>Inventory Adjustment Request <input type="checkbox"/></p>	<p>Tank Calibration Manual <input type="checkbox"/></p> <p>Health Physics Procedure <input type="checkbox"/></p> <p>Spares Multiple Unit Listing <input type="checkbox"/></p> <p>Test Procedures/Specification <input type="checkbox"/></p> <p>Component Index <input type="checkbox"/></p> <p>ASME Coded Item <input type="checkbox"/></p> <p>Human Factor Consideration <input type="checkbox"/></p> <p>Computer Software <input type="checkbox"/></p> <p>Electric Circuit Schedule <input type="checkbox"/></p> <p>ICRS Procedure <input type="checkbox"/></p> <p>Process Control Manual/Plan <input checked="" type="checkbox"/></p> <p>Process Flow Chart <input type="checkbox"/></p> <p>Purchase Requisition <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p> <p>_____ <input type="checkbox"/></p>
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**19. 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
<u>WHC-CM-5-24, Add. I, Rev 2/89</u>	_____	_____
_____	_____	_____

**20. Approvals**

Signature	Date	Signature	Date
<u>OPERATIONS AND ENGINEERING</u>		<u>ARCHITECT-ENGINEER</u>	
Cog./Project Engineer <u>David H. Sturford</u>	<u>6/6/89</u>	PE _____	_____
Cog./Project Engr. Mgr. <u>R. J. Thompson</u>	<u>6/6/89</u>	QA _____	_____
QA <u>Deonica H. Agnew</u>	<u>6/7/89</u>	Safety _____	_____
Safety <u>[Signature]</u>	<u>6/7/89</u>	Design _____	_____
Security _____	_____	Other _____	_____
Proj. Prog./Dept. Mgr. _____	_____	_____	_____
Def. React. Div. _____	_____	_____	_____
Chem. Proc. Div. _____	_____	_____	_____
Def. Wst. Mgmt. Div. _____	_____	_____	_____
Adv. React. Dev. Div. _____	_____	_____	_____
Proj. Dept. _____	_____	_____	_____
Environ. Div. <u>BB Howe</u>	<u>6-7-89</u>	_____	_____
IRM Dept. _____	_____	_____	_____
Facility Rep. (Ops) <u>[Signature]</u>	<u>6/7/89</u>	_____	_____
Other _____	_____	_____	_____



Change 1 is necessary to reflect the proper DOE-RL contact point for Operational Safety Requirement violations.

Change 2 is necessary to reflect the revision of the DOE-RL division title.

Change 3

The 1st Bullet corrects a typographical error in the original ECN.

The 2nd bullet is required to clarify the status of Interim Concentration Values for selected radioactive species in PUREX liquid effluents. These values have been established and are documented in WHC-CM-7-5, "Environmental Compliance Manual."

The 3rd Bullet is required to clarify the parenthetical "Exceptions" expression in the first paragraph of Section 11.3.4.4. The exceptions delineated are for tritium control and for the use of Interim Concentration Values until best available technology is implemented. The practice of ALARA is not considered an exception and therefore properly belongs outside the brackets of the "Exceptions" expression.