

003777571

# ENGINEERING CHANGE NOTICE

Page 1 of 3

1. ECN 157778

Proj.  
ECN

4. Date

11/15/91

7. Impact Level

2

10. Related PO No.

N/A

2. ECN Category (mark one)

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

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

B.K. OLSON, 87233, T3-02, 3-4981

5. Project Title/No./Work Order No. ML51C

TRUSAF HI#E

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

224-T

8. Document Number Affected (include rev. and sheet no.) SD-WM-SAR-025, R0, P.38

9. Related ECN No(s).

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 & Date

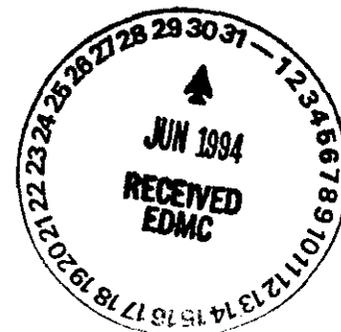
11d. Complete Restoration (Temp. ECN only)

N/A

Cog. Engineer Signature & Date

12. Description of Change

CHANGE DOCUMENT PAGE AS OUTLINED ON CONTINUATION SHEET.



13a. Justification (mark one)

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

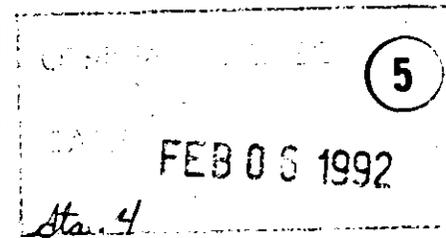
13b. Justification Details

PROVIDES CLARIFICATION AS TO WHAT VENTILATION SYSTEM REQUIREMENTS ARE.

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

B.K. OLSON, T3-02  
M.D. AKHELE, T4-01  
N.M. SHOEMAKER, T4-01  
S.O. DELEON, S1-52  
D.J. MEYERS, R3-20

RELEASE STAMP



9432741623

# ENGINEERING CHANGE NOTICE

Page 2 of 3

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

15778

15. Design Verification Required

- Yes  
 No

16. Cost Impact

ENGINEERING

CONSTRUCTION

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

17. Schedule Impact (days)

- N/A  
Improvement  \_\_\_\_\_  
Delay  \_\_\_\_\_

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.

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

20. Approvals

Signature	Date	Signature	Date
<u>OPERATIONS AND ENGINEERING</u>		<u>ARCHITECT-ENGINEER</u>	
Cog./Project Engineer <u>B. K. [Signature]</u>	<u>11/15/91</u>	PE _____	_____
Cog./Project Engr. Mgr. <u>[Signature]</u>	<u>11/15/91</u>	QA _____	_____
QA <u>[Signature]</u>	<u>12-11-91</u>	Safety _____	_____
Safety <u>[Signature]</u>	<u>1/22/92</u>	Design _____	_____
Security _____	_____	Other _____	_____
Proj. Prog./Dept. Mgr. _____	_____	_____	_____
Def. React. Div. _____	_____	_____	_____
Chem. Proc. Div. _____	_____	_____	_____
Def. Wst. Mgmt. Div. _____	_____	<u>DEPARTMENT OF ENERGY</u>	
Adv. React. Dev. Div. _____	_____	_____	_____
Proj. Dept. _____	_____	_____	_____
Environ. Div. _____	_____	<u>ADDITIONAL</u>	
IRM Dept. _____	_____	_____	_____
Facility Rep. (Ops) _____	_____	_____	_____
Other _____	_____	_____	_____

SD-WM-SAR-025, R0, PG 38

**WAS**

The majority of air enters a common exhaust plenum from which it flows through prefilters and HEPA filters before being exhausted to the atmosphere. Some air, approximately 800 ft<sup>3</sup>/min, is exhausted to the environment, unfiltered, (via stairways), to the elevator, a vestibule, and a lavatory that which are not tied into the main building exhaust system. The filtered air is exhausted by parallel exhaust fans (K1-8-1 and K1-8-2) at a nominal rate of 16,318 ft<sup>3</sup>/min each. Filtered air is discharged to the atmosphere via stacks 296-T-11 and 296-T-12. The stacks, located on the southwest end of the second floor roof of building 224-T, are horizontal and exhaust toward the southwest. The isolated process cells are maintained at a negative (-0.8 wg) pressure with respect to atmosphere and with respect to the storage areas (-0.5 wg) by venting through one stage of HEPA filters and tying into the building ventilation system ahead of the final stage of prefilter and HEPA filters. This system provides 9 air changes/h.

**IS**

The majority of air enters a common exhaust plenum from which it flows through prefilters and HEPA filters before being exhausted to the atmosphere. Some air, approximately 800 ft<sup>3</sup>/min, is exhausted to the environment, unfiltered, (via stairways), to the elevator, a vestibule, and a lavatory that which are not tied into the main building exhaust system. The filtered air is exhausted by parallel exhaust fans (K1-8-1 and K1-8-2) at a nominal rate of 16,318 ft<sup>3</sup>/min each. Filtered air is discharged to the atmosphere via stacks 296-T-11 and 296-T-12. The stacks, located on the southwest end of the second floor roof of building 224-T, are horizontal and exhaust toward the southwest. The isolated process cells are maintained at a negative (-0.8 wg) pressure with respect to atmosphere and with respect to the storage areas (-0.5 wg) by venting through one stage of HEPA filters and tying into the building ventilation system ahead of the final stage of prefilter and HEPA filters. This system provides 9 air changes/h. The minimum requirements for the facility are to maintain a constant negative pressure with respect to the atmosphere and maintain a recommended ventilation rate of 4 to 8 air changes/h.

# INFORMATION RELEASE REQUEST

References:  
WHC-CM-3-4

## COMPLETE FOR ALL TYPES OF RELEASE

Purpose		New ID Number <p style="text-align: center;">N/A</p>	
<input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape	(Check only one suffix) <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Database <input type="checkbox"/> Other	Existing ID Number (include revision, volume, etc.) <u>ECN 157778</u> <del>WHC-SD-WM-SAR-025, RG</del> If previously cleared, list ID number <p style="text-align: center;">N/A</p> Date Release Required <p style="text-align: center;">1/31/92</p>	

Title <b>TRUSAF Hazards Identification and Evaluation</b>	Unclassified Category UC- N/A	Impact Level 2
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## COMPLETE FOR SPEECH OR PRESENTATION

Title of Journal	Group or Society Sponsoring
Date(s) of Conference or Meeting	City/State
Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Title of Conference or Meeting	

## CHECKLIST FOR SIGNATORIES

Review Required per WHC-CM-3-4	Yes	No	Reviewer	Signature	Date
Classification/Unclassified Controlled Nuclear Information	[ ]	[X]	Name (printed)		
Patent - General Counsel	[ ]	[X]			
Legal - General Counsel	[ ]	[X]			
Applied Technology/Export Controlled Information or International Program	[ ]	[X]			
WHC Program	[ ]	[X]			
Communications	[ ]	[X]			
DOE-RL Program	[ ]	[X]			
Publication Services	[ ]	[X]			
Other Program	[ ]	[X]			
References Available to Intended Audience	[ ]	[X]			
Transmit to DOE-HQ/Office of Scientific and Technical Information	[ ]	[X]			

Information conforms to all applicable requirements. The above information is certified to be correct.

Author/Requestor (Printed/Signature) B. K. Olson Date 1/24/92	<b>INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP</b> Stamp is required before release. Release is contingent upon resolution of mandatory comments.
Responsible Manager (Printed/Signature) Date 2/6/92	<p style="text-align: right; margin-top: 10px;"><i>For Sponsor Release only</i></p>
Intended Audience  <input type="checkbox"/> Internal <input checked="" type="checkbox"/> Sponsor <input type="checkbox"/> External	Date Received <u>2/6/92</u> <i>KMB</i>