## ENGINEERING CHANGE NOTICE

**ECN Category (mark one)**  
- Supplemental  
- Direct Revision  
- Change ECN  
- Temporary  
- Standby  
- Supersede  
- Cancel/ Void  

**Originator's Name, Organization, MSIN, and Telephone No.**  
D. L. Halgren, 32900, L604, 376-9988

**USQ Required?**  
- Yes  
- No

**Date**  
4/14/99

**Project Title/No./Work Order No.**  
300 LEF/ 101730/ B C 3 0 12

**Bldg./Sys./Fac. No.**  
NA

**Document Numbers Changed by this ECN (includes sheet no. and rev.)**  
WHC-SD-LEF-TI-001, Rev. O

**Related ECN No(s).**  
NA

**Related PO No.**  
NA

**Modification Work**  
- Yes (fill out Blk. 12b)  
- No (NA Blks. 12b, 12c)

**Work Package No.**  
NA

**Modification Work Completed**  
NA

**Design Authority/Co-Engineer Signature & Date**  
3a. Description of Change  
WHC-SD-LEF-TI-001, Rev. O revised to HNF-SD-LEF-TI-001, Rev. 1.

**Justification (mark one)**  
- Criteria Change  
- Design Improvement  
- Environmental  
- Facility Deactivation  
- As-Found  
- Facilitate Const.  
- Const. Error/Omission  
- Design Error/Omission

**Justification Details**  
The document was revised to reflect changes in the criteria document references and update the description and status of the facility. Specifically, the yard drains were added as discharge sources.

**Distribution (include name, MSIN, and no. of copies)**  
- D. L. Halgren  
- R. T. Stordeur  
- J. I. Feaster  
- Central Files  
- DOE/RL Reading  
- Rm.

**Release Stamp**  
APR 21, 1999

**Release**  
15

**Date:**  
20
## ENGINEERING CHANGE NOTICE

1. **ECN (use no. from pg. 1)**: 639009

### 16. Design Verification Required
- Yes
- No

### 17. Cost Impact
- **ENGINEERING**
  - Yes Additional: $__________
  - No Additional: $__________
- **CONSTRUCTION**
  - Yes Savings: $__________
  - No Savings: $__________

### 18. Schedule Impact (days)
- Improvement: ______
- 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.

<table>
<thead>
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### 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.

<table>
<thead>
<tr>
<th>Document Number/Revision</th>
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### 21. Approvals

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<th>Signature</th>
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<tbody>
<tr>
<td>Design Authority</td>
<td>4/19/99</td>
<td>Design Agent</td>
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<tr>
<td>Environ. C. Grando</td>
<td>4-20-99</td>
<td>Environ.</td>
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<td>Other</td>
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</table>

### DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

### ADDITIONAL
LIQUID WASTE CERTIFICATION PLAN
340 WASTE HANDLING FACILITY

D. L. Halgren
Waste Management Hanford
Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 639009
Org Code: 32900
B&R Code: EW3130020
UC: 2000
Charge Code: 101730 / BC30
Total Pages: 7

Key Words: Liquid Waste Certification, 340 Building, 340 Facility, Process Sewer, Retention Process Sewer

Abstract: This document addresses the discharges from the 340 Facility to the 300 Area Process Sewer and Retention Process Sewer.
# RECORD OF REVISION

**Title:** Liquid Waste Certification Plan  
**Facility:** 340 Waste Handling Facility

<table>
<thead>
<tr>
<th>Revision</th>
<th>Description of Change - Replace, Add, and Delete Pages</th>
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<tr>
<td>0</td>
<td>Initial release. EDT-133969 4/13/95</td>
<td>L.D. Berneski 4/11/95</td>
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<tr>
<td>1 RS</td>
<td>Complete revision. ECN - 639009</td>
<td>RT Storheur 4/19/99</td>
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LIQUID WASTE CERTIFICATION PLAN

340 WASTE HANDLING FACILITY
APPROVALS

Prepared By: D. L. Halgren

Reviewed By: R. T. Stordeur

CERTIFICATION

I certify that, to the best of my knowledge, the information contained in the Facility Liquid Waste Certification Plan accurately reflects discharges from 340 Complex to the 300 Area Process Sewer.

R. T. Stordeur
Facility Liquid Waste Certification Authority

APPROVAL

D. L. Halgren
Facility Liquid Waste Certification Plan Approval Authority
LIQUID WASTE CERTIFICATION PLAN
340 WASTE HANDLING FACILITY

1.0 PURPOSE

To demonstrate that discharges to the 300 Area Process Sewer and the 300 Area Treated Effluent Disposal Facility (TEDF) from 340 comply with HNF-3172, "Hanford Site Liquid Waste Acceptance Criteria."

2.0 SCOPE

This Facility Liquid Waste Certification Plan has been prepared in accordance with the requirements of, WMH-320, "300 Area Liquid Effluent Facilities Administration," Section 3.4, "Liquid Waste Certification Program."

3.0 FACILITY DESCRIPTION

The 340 Waste Handling Facility includes:

- 340 Building
- 340A Above Ground Storage Tank Building
- 340B Tank Car Loadout Facility
- Trailer MO-741
- Trailer MO-036

4.0 DISCHARGES TO THE 300 AREA PROCESS SEWER

The overflow from the K-3 supply air evaporative cooler is the main source of process sewer discharge from the 340 Facility. This HVAC equipment, supplied from a sanitary water line, is only active during warmer weather. The flow is estimated at less than 1 gpm and the characterization meets the acceptance criteria as typical HVAC condensate from a sanitary water supply.
A small cup sink/drain in the control room also leads to the process sewer, but it is seldom if ever used. A valved purge line from a Y-strainer in the process water line is directed into this cup drain, it is used whenever the strainer plugs. This is an unlikely future occurrence now that this leg of the process water system has been laid up as part of 340 deactivation.

There is a yard drain just north of the 340 Building, right outside the control door that drains directly to the process sewer. This drain collects stormwater runoff from paved and graveled areas immediately surrounding the drain. The HVAC unit for the control room drains to the pavement nearby and may make it to the yard drain. Water from periodic testing of the 340 fire sprinkler system may also reach this yard drain.

5.0 DISCHARGES TO THE RETENTION PROCESS SEWER (RPS)

There is a yard drain immediately west of the 340 Building that is connected to the RPS at manhole RPS-21. This drain collects stormwater runoff from paved and graveled areas surrounding the drain. Sprinkler test water may also reach this drain.

6.0 COMPLIANCE WITH WAC

The described 340 Facility sources to the PS/RPS do not violate any of the WAC stated in HNF-3 172; as based on process knowledge rather than any extensive characterization. It can be noted that the discharge sources identified above match several of the exempted or categorically excluded streams spelled out in HNF-3172, section 6.0. Short of some significant spill involving one or more of the WAC constituents reaching the storm drains, there is no mechanism for, nor expectation of, exceeding these limits.
### PROCESS SEWER/RETENTION PROCESS SEWER ACCESS POINTS

#### TABLE 1

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>SERVICE</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td><strong>PROCESS SEWER</strong></td>
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<tr>
<td>K-3 Cooler</td>
<td>HVAC</td>
<td>Seldom if ever used</td>
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<tr>
<td>Control Room drain</td>
<td>Process water purge</td>
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</tr>
<tr>
<td>Yard Drain North of 340 Bldg.</td>
<td>Stormwater</td>
<td></td>
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<tr>
<td><strong>RETENTION PROCESS SEWER</strong></td>
<td></td>
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</tr>
<tr>
<td>Yard Drain West of 340 Bldg.</td>
<td>Stormwater</td>
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