

**PRELIMINARY ASSESSMENT/SITE INSPECTION REPORT
AND SWMU ASSESSMENT REPORT**

UNIT NUMBER: 507

UNIT NAME: C-410/420 Complex – Condensate Tank Pit

DATE: 12/20/01

REGULATORY STATUS: Solid Waste Management Unit (SWMU)

LOCATION: Pit located in the C-410/420 Complex at column Wa-9&10

APPROXIMATE DIMENSION: 5 ft x 5 ft x 4 ft.

FUNCTION: Served as a moisture collection system around the condensate tank in the fan room of C-410.

BRIEF HISTORY: Pit served as a moisture collection system in the plenum/fan room area. The plenum system at this location provided heating for most of the C-410 Building. In the winter, outside air was pulled through filter banks across steam coils and then distributed throughout the building via large blower fans and a ductwork system. In the summer, the steam system was valved off and fresh air was filtered and distributed in a similar fashion. Building supervisor interview indicates that this sump may have seen greater activity than others due to periodic steam leaks (pipe freeze/burst cycle) and blown-in rain at this location. Drainage line located in the base of the pit. Discharge destination is unknown.

OPERATIONAL STATUS: Inactive

DATES OPERATED: July 1953 to July 1964 and July 1968 to May 1977

SITE/PROCESS DESCRIPTION: Collection system for a liquid waste stream in the vicinity of the condensate tank in the fan room. Sump located here due to high density of steam system components near an outside wall (i.e., the high potential for routine leaks and occasional bursting of frozen pipes) and the potential for rain to blow in via the filter rooms.

WASTE DESCRIPTION: Waste consisted of water.

WASTE QUANTITY: Presently approximately 375 gal based on visual inspection of pit.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: A 1994 sample from the water in the pit did not contain radiological contamination, polychlorinated biphenyls, or RCRA metals. (*Martin Marietta Energy Systems Request for Site Surveys/characterizations and Miscellaneous Characterizations and Survey - MMES-94-45.*)

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: No releases from this SWMU have been documented.

GROUNDWATER: There are no known groundwater impacts from this SWMU.

SURFACE WATER: There are no known surface water impacts from this SWMU.

SOIL: There is no known impact on surface soils from this SWMU.

ECOLOGY AFFECTED (i.e., threatened/endangered species): No known impacts. No federal or state listed T&E plant or animal species have been identified. The federally endangered Indiana bat (*Myotis sodalis*) potentially occurs in the vicinity, but the C-410 complex does not provide a suitable habitat.

DOCUMENTATION OF NO RELEASE: NA

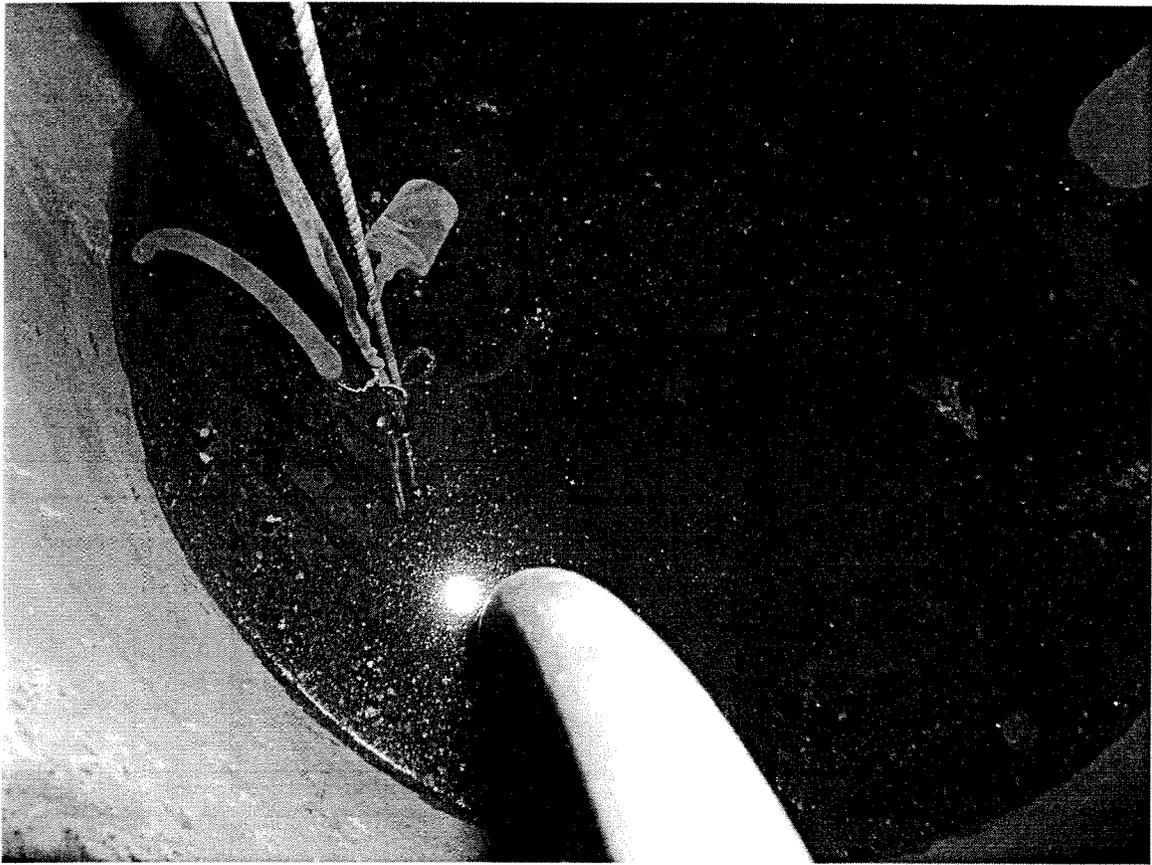
IMPACT ON OR BY OTHER SWMU/AOC: The following SWMUs are in the vicinity of the C-410/420 complex:

| | | | |
|----------|----------|----------|---------|
| SWMU 11 | SWMU 19 | SWMU 20 | SWMU 26 |
| SWMU 40 | SWMU 41 | SWMU 47 | SWMU 78 |
| SWMU 169 | SWMU 198 | SWMU 203 | |

PRG COMPARISON: NA

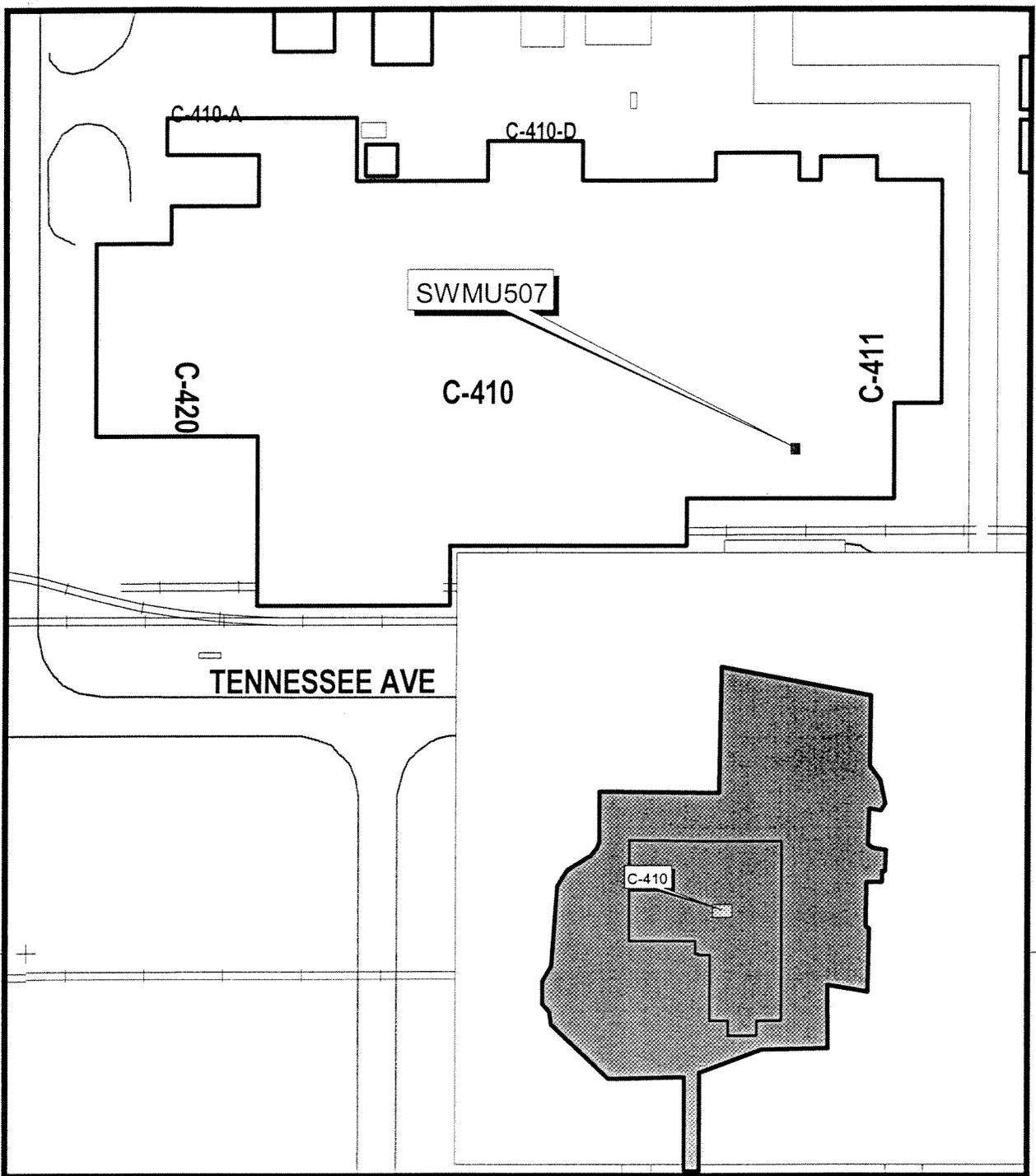
RFI NECESSARY: This area is associated with an inactive facility that is included in the decontamination and decommissioning (D&D) program. Site evaluation work is underway at this time, along with planning associated with the infrastructure D&D phase. The need for a Remedial Investigation/Feasibility Study will be evaluated as part of the facility structure D&D phase.

NOTE: Elements included in this outline shall be considered and incorporated, as appropriate, when developing the above referenced document.



SWMU 507

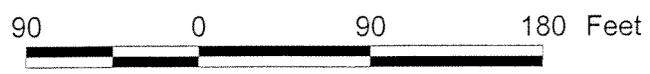
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