

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

UNIT NUMBER: 463

UNIT NAME: C-746-A East End

DATE: 01/19/01

REGULATORY STATUS: SWMU

LOCATION: This SWMU is the east end of C-746-A, which is located north of C-746-B.

APPROXIMATE DIMENSION: 126 ft. X 20 ft. X 165 ft.

FUNCTION: According to USEC Chemical Operations personnel, this site is used for the storage of nickel smelter, gold recovery and associated equipment, and other miscellaneous waste.

BRIEF HISTORY: According to USEC Chemical Operations personnel, the nickel smelter was used to recover nickel from various materials containing nickel. The gold recovery process was used to recover gold and other metals during disassembly of military weapons. After the unit was shut down, area was used for storage of materials.

OPERATIONAL STATUS: Inactive

DATES OPERATED: According to USEC Chemical Operations personnel, it is unknown when the east end processes began operation, but they were shutdown during the late 1980s, probably 1986 or 1987.

SITE/PROCESS DESCRIPTION: According to USEC Chemical Operations personnel, the nickel recovery process consisted of a pre-treatment system and an induction furnace. The pre-treatment system consisted of a vibratory separator, a magnetic separator and a calciner. The induction furnace was used to melt the treated nickel.

WASTE DESCRIPTION: Induction furnace, pre-treatment equipment and gold recovery process equipment. There are also numerous empty 55-gallon drums, compressed gas cylinders, nickel buttons (samples of the melted nickel), nickel ingots and forms.

WASTE QUANTITY: Approximately 415,800 ft³

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: Remedial investigations were conducted in this area as part of Waste Area Grouping (WAG) 15 (underground tanks) and WAG 27 (C-746-A Septic Systems). According to BJC personnel who were formerly employed by the previous subcontractor, slight radiological contamination was present on the ground surface outside of this SWMU from temporary storage of nickel ingots.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: According to USEC Chemical Operations personnel, normal operation of the processes located in this building resulted in air emissions to the atmosphere. No spills or other releases to the environment from this unit are known.

GROUNDWATER: N/A

SURFACE WATER: N/A

SOIL: N/A

ECOLOGY AFFECTED (i.e., endangered/threatened species): None

DOCUMENTATION OF NO RELEASE: None.

IMPACT ON OR BY OTHER SWMU/AOC: SWMUs 144, 196B, 137, 29, 173 are located in the area. There was no evidence of impact on or by any other SWMU.

PRG COMPARISON: N/A

RFI NECESSARY: No. This area is located inside the C-746-A building. Operations of the smelter resulted in air emissions as part of the normal process. No spills or other releases to the environment from this unit are known.

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