Oak Ridge Health Studies Document Summary Form

DOCUMENT TITLE: Determination of Hazards Associated with Smelting of Contaminated Stainless Steel (Knoxville Iron Work's Studies)

DOCUMENT NUMBER OR IDENTIFIER: ——

AUTHOR(S): D.M. Davis

PUBLICATION DATE: 6/9/55

DATA TIME PERIOD: Start 5/55 Stop 6/55

CLASSIFICATION CATEGORY: UNK (UNC) OUO UCNI CL* *Category & Level: FRD or RD or NSI; CONF or S or TS

SITE(S) DOCUMENT ADDRESSES: K X (Y) S ORR MELT CLIN WOC WOL POPL EFPC PCE BEAR WATT

SOURCE/LOCATION OF DOCUMENT: X-10 ~~DFE~~ DF ; Health Physics-General (1955)

DOCUMENT CATEGORY

Al [DL dr dc da] (ED) ea ew es ef] EP [HO hp hr hs hw] IN IP [ST sa sw ss] TM WP

Primary category - circle once; Secondary category (optional) - circle twice. Circle only one in a bracketed group.

DATE ENTERED INTO DATABASE: BY: InMagic No.

KEYWORDS:
uranium
contaminated scrap
smelting

ABSTRACT:

Results of studies of hazards associated with smelting of approximately seven tons of government owned contaminated stainless steel scrap by Knoxville Iron Company. The material was from the Calutron process at Y-12 and had an alpha activity ranging from 5000 d/m/100 cm² to > 25,000 d/m/100 cm². Air and smear samples were collected (the highest air activity was in the sample collected at the beginning of the smelting process - 3.8×10^{-10} µc/cc). Samples of the furnace lining, slag, and stainless steel melt were also collected.

COPY AT: ACA

REVIEWER: GM Bruce DATE REVIEWED: 3/28/96

ChemRisk Document No. 2668