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PREDECISIONAL DRAFT	ENVIRONHENTAL RESTORATION AND WASTE MANAGEMENT FIVE-YEAR I
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ECIS	AH TY
PREDI	RESTORATION ACT'V
	ENVIRONHENTAL

ID Mumber: 08-0602-02/06-30	. Category: CA	Gaskets) Priority: 3
Operations Office: OR Installation: PORTS	Facility/Waste Area Grouping: SOLID Program B&R Code: CD-10-71-86-4	Activity Title: PB/PCB Control Improvements (Gaskets)

## Budget Authority (\$000's)

Funding Summary:

1995

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FY 1994	00	000	000
FY 1991 FY 1992 FY 1993	00	3,600	000
FY 1992	00	20,000	900
FY 1991		10,000	000
FY 1990* Amended. Presid. Budget	000	0 0 .	000
FY 1989.	400	400	
	Operating: Capital: Plant:	GPP Line-Item TOTAL	RESD (non-add) Operating: Capital: Plant: TOTAL

-FY 1989 and FY 1990 funds are for CDR and feasibility study (engineering/operating) support work only. MATRATIVE: This project is to bring the ventilation duct systems at Portsmouth fine compilance (TSCA) and on G ER 781.20. Gurrently, the ventilation duct systems at Portsmouth fine compilance (TSCA) and on G ER 781.20. Gurrently, the ventilation ducts are constructed with flanged joints abbestor; PGB's, and radionulides. This use of PGB's is not suthorized under the unrently suppounds; resultions and, barring requisitory relief, must be terminated. In addition, some of the ventilation ducts the Process Building Motor Exhaust Ducts) contain entrained lubricating oil floors of the process Buildings. These "Grips" and dispoling on the operating Cleanup Policy, which is consumptive of plant resources and administratively burdensome.

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OR-0502-C2/

PA. The other alternative consists of the removal of the gastets and decontamination of ductwork. This alternative would comply with the existing regulations, but would involve he health and safety risks (due to the substitution the gastets and construction safety issues) servironmental risks (due to the fact that no existing or planned waste handling facilities to accept the gastet materials) and is prohibitively expensive under the exist funding restrictions on the uranium enrichment program (several hundred million dollars). Possibility of troughing only the motor exhaust ducts to further reduce costs is the investigated. This activity is proceeding with we alternatives in parallel. The preferred alternative is statall an oil control system under all duct flanges with a potential to leak and collect the oil for appropriate disposal. To permit this alternative which violates 15cA regulations, 00 pursuing a rulemaking with EPA to authorize the continued use of PCB's in ventilation gaskets. Oil collection troughs would be installed under all motor exhaust ducts and manifolde collection points to control oil drips. All gasket materials will be removed and disp appropriately it plant decomissioning and decontamination. This alternative has lover health environmental Triss and much lover costs (T34 million), but requires the active concurrence of EAA. The other alternative consists of the removal of the gaskets and decontamination of ductwork. This alternative would comply with the existing regulations, but would involve hi

No described for british to go the standard expected to continue until an agreement (including compliance schedule) is reached or until EAA initiates enforcement action based on the exist regulations. Any delay or deferent of this activity can be expected to trigger an enforcement action by EAA based on the existing regulations.

Gurrant 85R: CD-10-01 39-CD-10-01

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Contitionations: Cost estimates are based on the Cost and Schedule Document for the Concept Dasign Report (902 Draft). Proposed project schedules are:

6.90	Jan 93	Feb 93
STARE	Oc 1 30	0=t 91
	Engineering	Construction

Alternative 2 - Replacement

Nov 94 Apr 95 Oct 90 Oct 91 Engineering Construction been suggested, but would offer no advantages over troughing and would be more difficult implement. Incapsulation of the gastets here auggested, but would offer no advantages over troughing and would be more difficult implement. The best alternative seems to be containment via troughing vs. replacement. A ristance supports containment due to the potentially advarte safety and health impacts construction workers who would be performing the gaster replacement. Funding for gast replacement is \$6.840 million in FT 1991, \$204.01 million in FT 1995. \$2.39 million in FT 1995.

5475: 10/27/8: FROM CEPT: 378 CODE NO: GAT-378.

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REFERENCES

C. A. Mariges, Marker Production Division 801 X-100, MS 1110A

DEPT: 0-

LOCATION:

SUBJECT:

VENTILATION\* IT SELM SEEPAGE

The seapage of liquid containing high layers of polychlorinated by (723) from votiliation dut asso endo the operating floors of the process buildings has been observed. The committee of this liquidation by the US-27A to be a POS spill; therefore, liquidation of this liquidation by the disposed of as POS verses. The Medical, cleaning and inspection process that the production Division institution is sponse outlining your beneath the public for the program is the submitted to the matter response outlining your beneath the plans for the program submitted to the attablished by November 25, 198 (included by Movember 25, 198 (included by Movember 25, 198)

## Discussion

The MSZ organization has investigated and confirmed the occurrence of liquid. Leaks. From certain ventilation duct seems in the X-333, X-336 X-326 Frocess Buildings. The seelment used for the ventilation duct expalsions has been found to contain high levels of FCEs; consequently, a expansion joint material degrades, FCB iliquid drips onto the operating Several general observations about this seepage problem are listed below:

FGG concentrations up to 290,000 ppm have been found in the ventilation duct seam seapage. All liquid associated with the seagage should be treated as FGG waste (i.e., 50 ppm or greater PGGs). The seapage condition does not appear to be a significant health barserd, however, it is a FGG veste management concern.

Liquid from the seems is distinguishable from most lube oil leeks. Vent duct seepage is reddish-brown in color and much more viscous than lube oil. These leeks occur primarily in areas under the duct seems, and are of low volume when compared to lube oil leeks.

4,4 If has been observed that the seam srepase occurs primarily everants ducts serving operating units. Also, it seems seemes rate increases as the fuct temperature increases.

Vent duct seepege occurs primarily at the X-333 Frocess Juilding. Enveyer, seepege is also evident to a lesser excert at the X-330 and X-326 Frocess Buildings. The X-326 Frocess Juilding has the spraigh conditions associated with it, first, they floor areas have liquide that are a mixture of lube oils and yent sen sealant oils, second, a network of collection channels has been installed under some of the seems at the content of the building.

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05/11/20

## SPECIAL NOTICE GAT-OCAW

PCB CONTAMINATED OIL IN PROCESS BUILDINGS SUBJECT:

PROBLEM:

It has been determined that oil seeping from the exhaust duct vent seams in the process buildings contains POLYCHLORINATED BIPHENYLS seams in the process buildings contains POLYCHLORINATED BIPHENYLS babove plant allowable limits. The immediate concern is to protect all persons who may come in contact with PCB-contaminated oil while working or passing through these areas of seepage.

(Polychlorinated biphenyls (PCB's)) can affect the body through inhalation, contact with the eyes, skin, or if swallowed. The PCB's can cause an acne-like rash and irritate the eye, nose, and throat. In cases of severe exposure, they may also injure the liver resulting in effects such as fatigue, dark urine, and yellow jaundice.

All GAT employees and visitors who may come in contact with this source or any other known sources of PCB-contaminated oil are required to use the proper protective equipment to avoid exposure (see Attachment I).

First aid measures to be taken in case of exposure should be:

- If PCBs come in contact with eyes, flush with large amounts of water and report to the Medical Department immediately thereafter.
- If clothing becomes saturated with PCBs, remove it and wash contaminated areas of skin as soon as possible.
- If PCBs are accidentally ingested, report immediately to the hospital. ..

PCB-Contaminated waste generated during these activities should be disposed of in special PCB waste containers. These containers will be provided by building supervision. Tools and other reusable items should be cleaned with kerosene. The waste cleaning solutions should be disposed of as a PCB-contaminated waste.

Obtain additional details on duties, as necessary.	5.1 What types of radioactive materials were present or processed, and in	(solid liquid, or gas)? Review the list below individually, as necessary.

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<u>Form</u>			"What quantities of radioactive maternals were present or processed (outlices, pounds, kilograms, drums) over what tune periods?
Isotope(s) if known	DK   (a,57)		iantifies of radioactive materials were present kilograms, drums) over what tune periods? _
Response		P9	uantities of radioactive , kilograms, drums) ovi
Radionuclide	Tritium Cobalt Strontium/Yttrium Technetium Iodine Ceetium Thallium Lead Polonium Radon (progeny) Radium Actinium Buropium Thorium (astural) Protactimium Thorium (astural) Protactimium Thorium (astural) Neptunium Uranium (antural) Protactimium Thorium (astural) Protactimium Thorium (astural) Protactimium Chanium (astural) Neptunium Chanium (astural) Neptunium Chanium (astural) Chanium	Orbers (1)	5 2 · What qu