

1 AND 2

TITLE: ADMINISTRATIVE PROCEDURE
DEWATERING CONTROL PROGRAM

APPROVED: John D. Townsend 4/5/88 4-5-88
PLANT MANAGER DATE EFFECTIVE DATE

1.0 SCOPE

- 1.1 The purpose of the Radwaste Dewatering Control Program is to assure that all dewatering of vendor containers meets State and Federal Regulations as well as Burial Site Criteria for Free Standing Water (FSW).
- 1.2 This Dewatering Process Control Program applies to all vendor dewatering liners and High Integrity Containers (HICs) containing ion exchange and filter media.
- 1.3 This procedure and changes thereto require PSRC review.

2.0 DISCUSSION

- 2.1 The dewatering system consists of a pump with necessary hoses for connection to the liner or HIC and to the plant interface piping. Liners or HICs supplied by a vendor are preassembled with a hub and/or lateral assembly for dewatering and media retention. Procedures for dewatering are dependent on the waste material to be dewatered and/or the container type.
- 2.2 These procedures, specific to the container and waste material provide instruction for the pumping and settling time sequences as well as; pump rate, total times pumped, and acceptance criteria. Additional contingencies are provided for vessels or liners requiring further steps to meet acceptance criteria and the means of verification of compliance. Methods for recording dewatering data are included in the specific procedure.

3.0 RESPONSIBILITIES

- 3.1 The Manager of Chemistry and Radiation Protection is responsible for implementation of the requirements of this program.

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- 3.2 The Radwaste Engineer is responsible for the development and review of procedures relating to the requirements of this program.
- 3.3 The Radwaste Foreman is responsible for implementation of the procedures relating to the requirements of this program.
- 3.4 QC is responsible for verification of compliance with the Quality requirements of the dewatering procedures.

4.0 INSTRUCTIONS

- 4.1 The Dewatering Control Program for Liners and HICs, shall consist of DCPP PSRC approved procedures.
- 4.2 These procedures shall contain the specific instructions for:
- 4.2.1 Pumping Time Cycles
 - 4.2.2 Pump Rate
 - 4.2.3 Total Time to be Pumped
 - 4.2.4 Temperature monitoring
 - 4.2.5 Acceptance Criteria of FSW
 - 4.2.6 Documentation and Records of Dewatering Activities
- 4.3 These procedures shall also specify the type of container and waste media that may be dewatered. Contingencies are provided for additional steps that may be necessary to meet FSW criteria.
- 4.4 GENERAL CONTROL PARAMETERS
- 4.4.1 Carbon Steel liners are not to be loaded with material:
 - a. Over 1 $\mu\text{Ci/cc}$ of nuclides with half lives greater than five years for shipment to Richland or Barnwell.
 - b. Above Class A for shipment to Beatty.
 - 4.4.2 Waste temperature is monitored to mitigate exothermic chemical reactions which are possible when dewatering organic ion exchange materials.
 - 4.4.3 At the end of the appropriate pump cycle, as outlined by the procedure, a measurement of displaced liquid is made.
 - 4.4.4 Records as outlined by the dewatering procedure shall be maintained for all dewatered containers prior to shipment. Copies are delivered to the Radwaste Foreman for indexing with radwaste shipping paper work.



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5.0 REFERENCES

- 5.1 AP C-257 "Mobile Service Operating Procedure for Low-Level Radioactive Waste Processing."
- 5.2 IE Information Notice No. 83-14: "Dewatered Spent Ion Exchange Resin Susceptibility to Exothermic Chemical Reaction."

6.0 ATTACHMENTS

- 6.1 Test Report: LN Technologies, Corp. LN 87-008, "DB Series Dewatering Containers," Rev. A.
- 6.2 Topical Report: TFC-TR-84, "For the NUHIC 120D," October 1984.

NOTE: The above attachment is maintained in Document Control Master File, Catalog No. TK 9400/LNT-1.



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PACIFIC GAS AND ELECTRIC COMPANY
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2

TITLE: PROCESS CONTROL PROGRAM (PCP) VERIFICATION

DATE	WASTE BATCH		PCP		NOTES	OPERATOR	VERIFIER
	Number	Type	Passed	Failed			



ATTACHMENT 2



ATTACHMENT 2

CHANGES TO THE OFFSITE DOSE CALCULATION PROCEDURE



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ATTACHMENT 1

