

ATTACHMENT 8

**Mobile Service Operating
Procedures For Low-Level
Radioactive Waste Processing
(RP2. DC4 - Rev. 5)**

9705160175 970430
PDR ADOCK 05000275
R PDR



*** ISSUED FOR USE BY: _____ DATE: _____ EXPIRES: _____ ***
PACIFIC GAS AND ELECTRIC COMPANY NUMBER RP2.DC4
NUCLEAR POWER GENERATION REVISION 5
DIABLO CANYON POWER PLANT PAGE 1 OF 4
ADMINISTRATIVE PROCEDURE

TITLE: MOBILE SERVICE OPERATING PROCEDURES FOR
LOW-LEVEL RADIOACTIVE WASTE PROCESSING

APPROVED: J. Molden 8-23-96 4-3-96
DATE EFFECTIVE DATE

SPONSORING ORGANIZATION: RADIATION PROTECTION
PROCEDURE CLASSIFICATION: QUALITY RELATED
REVIEW LEVEL: "A"

1. SCOPE

1.1 This procedure discusses the use of Mobile Service equipment for the proper, safe and effective processing and/or preparation of radioactive waste for disposal.

2. DISCUSSION

2.1 This procedure contains the individual Operating Procedures necessary to operate the mobile processing and solidification equipment. These procedures and changes there to require PSRC review prior to use.

2.2 The processing conditions necessary to assure that packaged radioactive wastes meet the various governmental and Burial Site Facility Waste Form requirements are addressed in RP2.DC2, "Process Control Program."

3. RESPONSIBILITIES

3.1 The Mobile Service Contractor is responsible for:

- 3.1.1 Setup of the processing equipment,
- 3.1.2 Operation of the processing equipment,
- 3.1.3 Dismantling of the processing equipment.

3.2 Radiation Protection is responsible for:

- 3.2.1 Performing surveys on the equipment prior to receipt,
- 3.2.2 Assuring that the DOT requirements have been met prior to the release of the equipment.

3.3 The Radwaste Engineer is responsible for:

- 3.3.1 Assuring the most current revisions of the Operating Procedures are on file.
- 3.3.2 Assuring that the requirements (if any) for effluent monitoring have been discussed with the Chemistry Engineer for radioactive effluents and the implementation of such requirements is conducted.

3.4 The Chemistry Engineer for radioactive effluents is responsible for evaluating and reporting effluents from mobile low-level radwaste processing equipment in the Semi-annual Effluent Report as necessary.

3.5 NQS is responsible for the verification that operations have been conducted in accordance with the appropriate Operating Procedures.



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4. PREREQUISITES

Changes to the dewatering and solidification procedures contained herein due to changes in equipment which would affect any waste form parameters require submission to the US NRC in the Semi-annual Effluent Report for the period in which the changes were made.

5. INSTRUCTIONS

Follow the appropriate steps in the individual Operating Procedures as listed below:

5.1 Liquid Waste Processing

NOTE: Copies of the following procedures are maintained in Document Control Master File, Catalog No. TK-9400/DTI-3.

- 5.1.1 Diversified Technologies, Procedure DT-DCPP-01, WPS™ Waste Processing, Rev. 0.
- 5.1.2 Diversified Technologies, Procedure DT-DCPP-02, WPS™ Adding Media, Rev. 0.
- 5.1.3 Diversified Technologies, Procedure DT-DCPP-03, WPS™ Sluicing Media, Rev. 0.
- 5.1.4 Diversified Technologies, Procedure DT-DCPP-04, WPS™ Leak Check, Rev. 0.
- 5.1.5 Diversified Technologies, Procedure DT-DCPP-08, RO-NF Operations, Rev. 0.

NOTE: A copy of the following procedure is maintained in Document Control Master File, Catalog No. TK-9400/SEG-2.

- 5.1.6 Scientific Ecology Group, Inc., Procedure DC-P-03-003, Procedure For Processing Sluice Water In A NUHIC-80B Container at Diablo Canyon, Rev. 0.

NOTE: A copy of the following procedure is maintained in Document Control Master File, Catalog No. TK-9400/CNS-3.

- 5.1.7 Chem Nuclear Systems, Inc., WI-CNSI-96-020, Work Instruction for Loading a CNS-21-300 Thermex Liner at PG&E Diablo Canyon Power Plant, Rev. 0.

5.2 Dewatering

NOTE: Copies of the following procedures are maintained in Document Control Master File, Catalog No. TK-9400/SEG-2.

- 5.2.1 Scientific Ecology Group, Inc., Procedure DW-008, Dewatering Procedure for 182 Ft3 Liners at Diablo Canyon Power Plant, Rev. D.

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- 5.2.2 Scientific Ecology Group, Inc., Procedure DC-P-03-001, Procedure for Dewatering Bead Resin, Filter Sludge, Zeolites, or Carbon Media with the SEG Dewatering System at Diablo Canyon, Rev. 0.
- 5.2.3 Scientific Ecology Group, Inc., Procedure HC-001, Procedure for Using the SEG Barrier-Plus™ High Integrity Container, Rev. 4.
- 5.2.4 Scientific Ecology Group, Inc., Procedure HC-002, Procedure for Sealing the Barrier Plus™ High Integrity Container for DCP, Rev. 0.
- 5.2.5 Scientific Ecology Group, Inc., Procedure DC-P-03-002, Procedure For Filter Packaging Using the HIC Overpack Assembly at Diablo Canyon, Rev. 0.
- 5.2.6 TFC Nuclear Associates, Inc., Procedure For Handling and Storage of High Integrity Containers, Rev. 4.
- 5.2.7 TFC Nuclear Associates, Inc., Procedure For Sealing High Integrity Containers, Rev. 4.

5.3 Solidification

NOTE: Copies of the following procedures are maintained in Document Control Master File, Catalog No. TK-9400/SEG-2.

- 5.3.1 Scientific Ecology Group, Inc., Procedure SS-039, Setup/Removal Procedure For SEG Radwaste Solidification System No. 8960 for use at Diablo Canyon Power Plant, Rev. D.
- 5.3.2 Scientific Ecology Group, Inc., Procedure SS-038, Operating Procedure for SEG Radwaste Solidification System No. 8960 for use at Diablo Canyon Power Plant, Rev. E.
- 5.3.3 Scientific Ecology Group, Inc., Procedure SS-054, Procedure for Using the L-80GE Filter Encapsulation Liner at Diablo Canyon, Rev. 0.
- 5.3.4 Scientific Ecology Group, Inc., Procedure SS-040, Contamination Bib Installation/Removal, Rev. C.
- 5.3.5 Scientific Ecology Group, Inc., Procedure SS-041, Procedure for Remote Lid Closure, Rev. C.

NOTE: Copies of the following procedures are maintained in Document Control Master File, Catalog No. TK-94001 DTI-2.

- 5.3.6 Diversified Technologies, Procedure DT-DCPP-09, Waste Transfer, Rev. 9.
- 5.3.7 Diversified Technologies, Procedure DT-DCPP-11, Filter Loading, Rev. 9.
- 5.3.8 Diversified Technologies, Procedure DT-DCPP-12, Media Treatment, Rev. 11.
- 5.3.9 Diversified Technologies, Procedure DT-DCPP-13, VERI Solidification, Rev. 15.



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5.3.10 Diversified Technologies, Procedure DT-DCPP-15, VES Solidification,
Rev. A.

5.4 Dry Active Waste Processing

NOTE: The following procedure is maintained in Document Control Master File,
Catalog No. TK-9400/SEG-2.

Scientific Ecology Group, Inc., Procedure DC-P-28-001, Procedure for using the SEG
Barrier Plus™ Container with Foam Lining at Diablo Canyon, Rev. A.

6. RECORDS

Records of dewatering and solidification operations shall be submitted to the Records
Management System on a shipment basis by container per RCP RW-4.

7. REFERENCES

7.1 Scientific Ecology Group, Inc., Quality Assurance Program, Rev. 4, Document
Control Master File, Catalog No. TK-9400/SEG-3.

7.2 RP2.DC2, "Process Control Program."

7.3 RP2.DC3, "Dewatering Control Program."

7.4 Diversified Technologies, Procedure QIP 20-09, Operator Training Procedure, Rev. 1.

8. SPONSOR

C. Clint Miller



ATTACHMENT 9

1996 Land Use Census

DCPP Radiation Protection personnel conducted a land use census in the vicinity of DCPP for 1996. The land use census is based on Nuclear Regulatory Commission (NRC), Regulatory Guide 4.8, "Environmental Technical Specifications for Nuclear Power Plants", and required by DCPP Program Directive CY2, "Radiological Monitoring and Controls Program." The census is conducted at least once per year during the growing season for the Diablo Canyon environs.

The land use census identifies the nearest milk animal and garden greater than 50 square meters (500 square feet), producing broadleaf vegetation, in each of the landward meteorological sectors within a distance of 8 kilometers (5 miles) of the plant. DCPP IDAP RP1.ID11 "Environmental Radiological Monitoring Program", requires that the nearest residence be identified in each of the landward sectors within a distance of 5 miles.

The land use census was performed by directly contacting individual landowners or tenants, or by aerial surveys. The landowners or tenants were contacted between September 6 and September 12, 1996. The aerial survey was done on August 30, 1996.

The census identified one household garden in the east sector at 4.6 miles, greater than 50 square meters (500 square feet) that produces broadleaf vegetation. No milk animals were identified within the first 5 miles in any sector. Much of the area surrounding the plant site is used for cattle grazing. Goats were used for weed abatement for approximately 5 months within the area surrounding the plant site. A farm is located on the coastal plateau in the east southeast (ESE) sector, along the site access road. The farm starts at approximately 3.3 miles and extends to 4.5 miles from the plant, but produces only legumes and cereal grass (grains).

A total of 13 residences were identified within the 5-mile radius of the plant that were confirmed to be, or appeared to be, occupied during 1996. The nearest residence is 1.2 miles north-west (NW) of the plant. Table 1 summarizes the results of the land use census and Figure 1 shows the locations of the farm and residences in the vicinity of DCPP.



Table 1

Land Use Census

Distance in Miles from the Unit 1 Center Line to the Nearest Milk Animal, Residence, Vegetable Garden

22½ Degree ^(a) Radial Sector	Nearest Milk Animal	Nearest Residence km (mi)	Residence Azimuth Degree	Nearest Vegetable Garden km (mi)
NW	None	1.93 (1.2)	319.5	None
NNW	None	2.41 (1.5)	331	None
N	None	None	—	None
NNE	None	5.3 (3.3)	018.5	None
NE	None	7.89 (4.9)	036	None
ENE	None	7.08 (4.4)	063.5	None
E	None	5.95 (3.7)	097.5	7.24 (4.6)
ESE	None	None	—	5.28 (3.3) ^(b)
SE	None	None	—	None

Table Notation:

^(a) Sectors not shown contain no land beyond the site boundary, other than islets not used for the purposes indicated in this table.

^(b) The vegetable garden indicated is the farm along the site access road; however, it does not grow broadleaf vegetation.



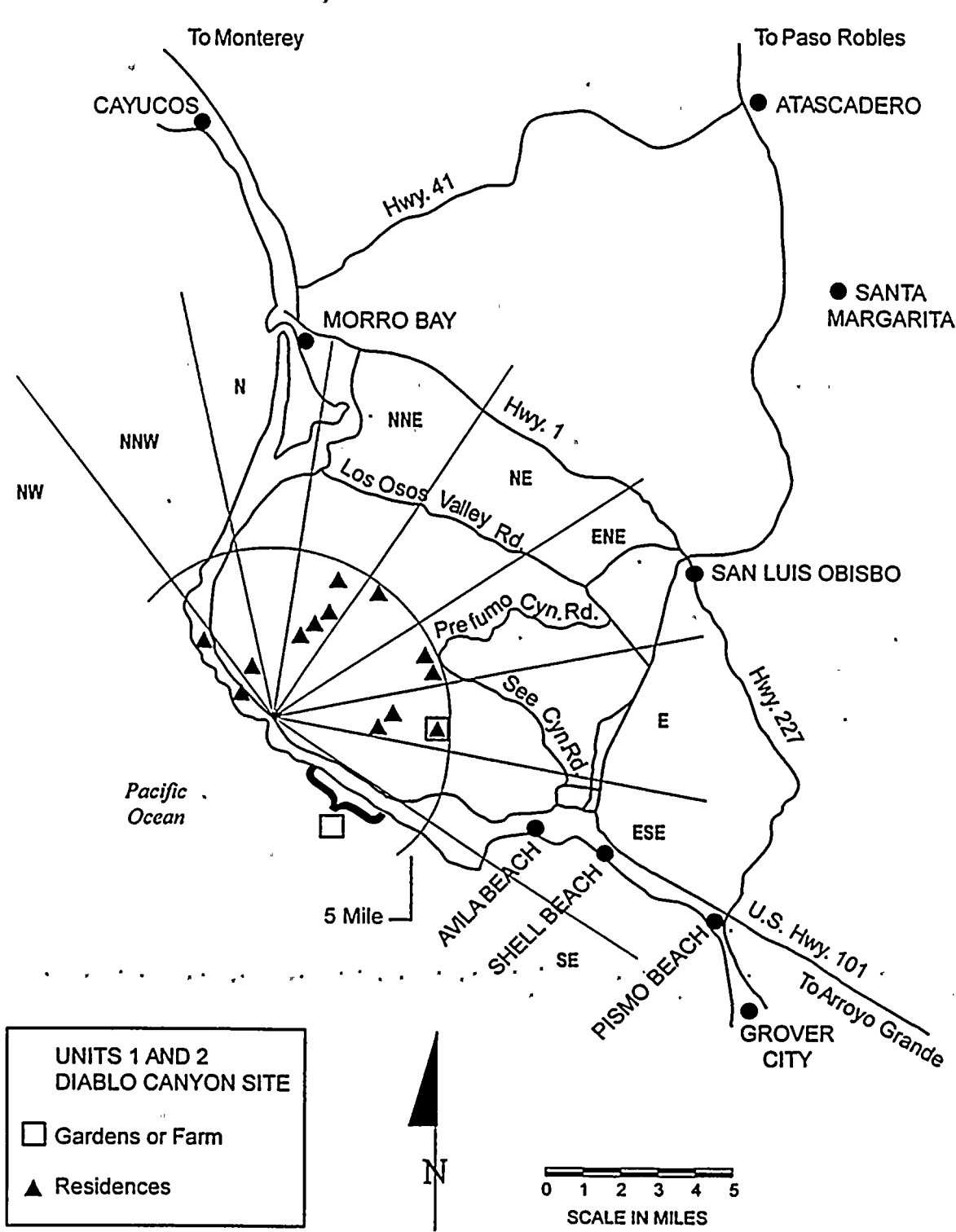


Figure 1. Units 1 and 2 Diablo Canyon Power Plant -Land Use Census.

