Consumers Power

PALISADES NUCLEAR PLANT

EMERGENCY IMPLEMENTATION PROCEDURE

TITLE; OFF-SITE ACCIDENT TLD PROCEDURE

PROC NO EI8-8
PAGE 1 OF
REVISION 0
DATE 4/21/80

REVIEWED BY
PRC - DATE 3/31/80 QA-05

APPROVED BY GENERAL MANAGER
4/25/80 DATE

1.0 PURPOSE

To provide a method of collecting off site TLD's under accident conditions.

2.0 REFERENCES

2.1 NRC submittal for Palisades Plant, "Requirements Resulting From Review at Three Mile Island 2 Accident: Actions Taken in Response to", dated December 27, 1979, Section 2.2.2.c, item (4).

2.2 Health Physics Procedure H.P.3.11.

3.0 PREREQUISITES

Accident TLD's will be routinely placed and changed in accordance with H.P.3.11 (Reference 2.2).

4.0 PRECAUTIONS AND LIMITATIONS

Change of TLD's under accident conditions may require knowledge of expected dose rates from prevailing meteorological conditions to assure that ALARA is met.

5.0 PROCEDURE

5.1 Collection

5.1.1 For accidents involving the release of radicactive material, one TLD at each location will be replaced each day (for example: on the first day, TLD 1 will be replaced by TLD 4; on the second day, TLD 2 will be replaced by TLD 5, etc.).

5.1.2 Collection of accident TLD's is done in the same manner as routine (monthly, quarterly, etc.) TLD's by plant personnel.

5.1.3 Collector will complete data sheet and return it to the Radiation Protection Supervisor.

5.1.4 Daily changes will continue until the Health Physicist discontinues the change.

5.1.5 ALARA considerations may prevent the change at a particular location or locations due to release rates and atmospheric conditions for a particular day or days.

5.2 Readout

5.2.1 General Office Health Physics section will pick up the collected TLD's and supply replacement TLD's.

5.2.2 All TLD's will be read by General Office TLD laboratory.

6.0 ATTACHMENTS

6.1 Figure 1, Map of Sectors and Rings.

6.2 Table 1, Location of Accident TLD's.

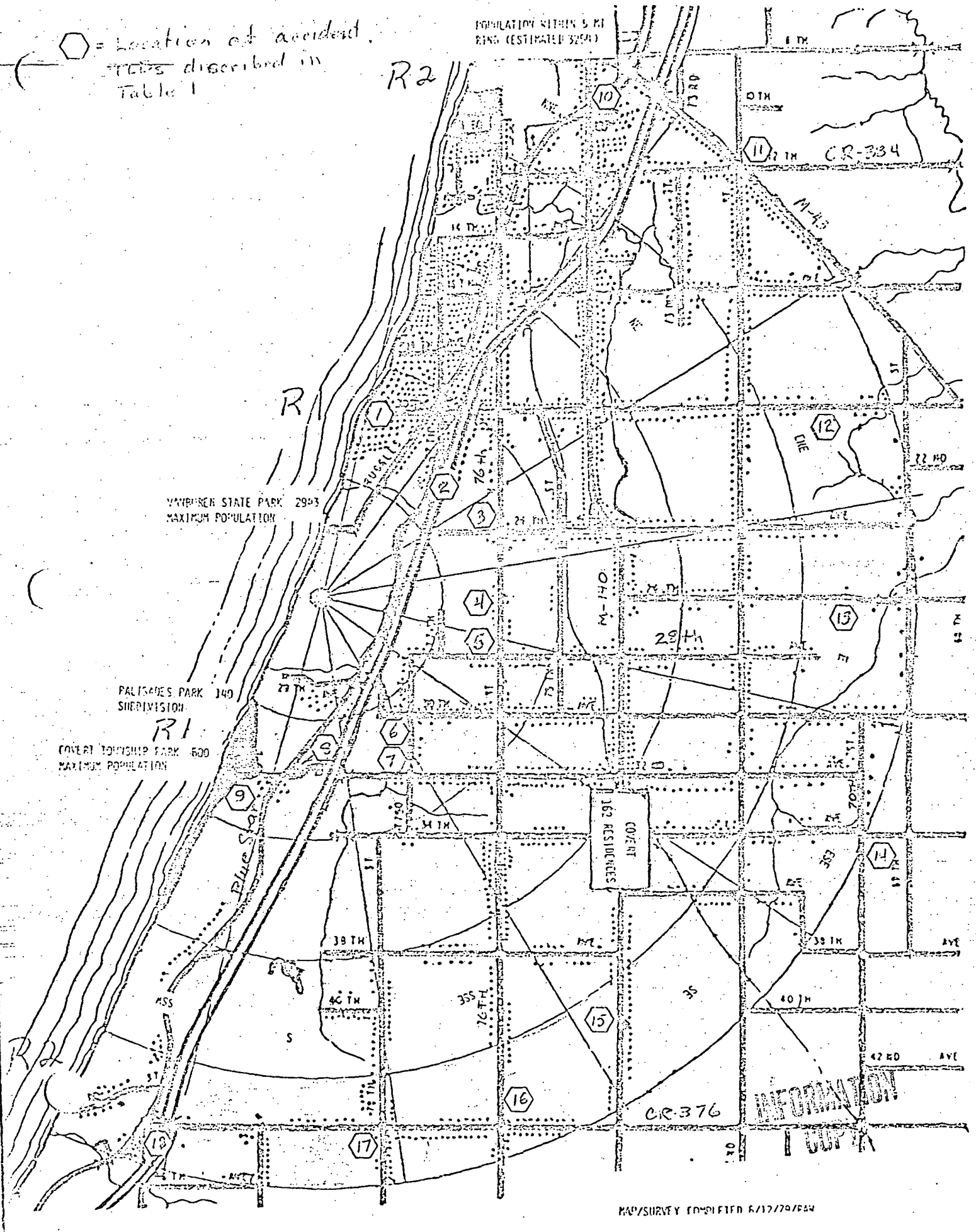
6.3 Data Sheet.

FIGURE 1

SOUTH HAVEN

POPULATION WITHIN 5 MI RING (ESTIMATED 1978)

⬡ = Location of accident sites described in Table 1



MAP/SURVEY COMPLETED 6/12/79/RAW

Table 1

Location of Accident TLD's

R1 - 1-2 mile ring

1. Utility pole on west end of 20th Ave.
2. Post on east side of Blue Star Hwy, approximately 1.5 miles north of plant access road.
3. Utility pole on northwest corner of 76th St. and 24th Ave.
4. Utility pole on west side of 76th St. - 0.5 miles south of 24th Ave.
5. Utility pole on northwest corner of 76th St. and 28th Ave.
6. Utility pole on southwest corner of 77.5th St. and 30th Ave.
7. Utility pole on northwest corner of 77.5th St. and 32nd Ave.
8. Utility pole on northeast corner of 32nd Ave. and Blue Star Hwy.
9. Beneath environmental air sampler - approximately 0.25 miles west of Blue Star Hwy on 32nd Ave.

Rs - 4-5 mile ring

10. Utility pole on northeast corner of Blue Star Hwy and M-140.
11. Utility pole on northeast corner of M-43 and C.R. 384.
12. Utility pole on south side of 20th Ave. - 0.5 miles west of 69th St.
13. Utility pole on south side of 26th Ave. - 0.5 miles west of 69th St.
14. Utility pole on southeast corner of 70th St. and 34th Ave.
15. Utility pole on west side of M-140 - 1.0 miles south of 38th Ave.
16. Utility pole approximately 1000 yards north of corner of C.R. 376 and 76th St.
17. Utility pole on southwest corner of C.R. 376 and 80th St.
18. Utility pole on southwest corner of C.R. 376 and 82nd St. - approximately 75 yards east of Blue Star Hwy.

Table 2

Accident TLD Change-out

TLD Location #	DATE	TIME	Initial	
			Collector	Rad Pro Supv.