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Docket No. 50-528

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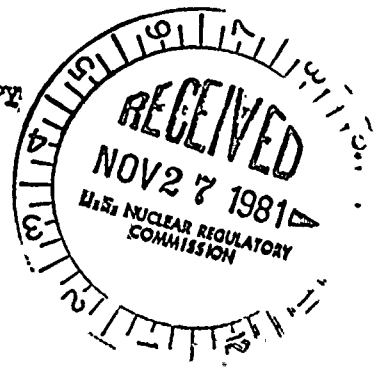

Arizona Public Service Company
P. O. Box 21666
Phoenix, Arizona 85036

Attention: Mr. E. E. Van Brunt, Jr., Vice President
Nuclear Projects

Gentlemen:

Subject: Permission to place Thermoluminescent Dosimeter's (TLD) on APS Poles

The Nuclear Regulatory Commission is establishing TLD direct radiation monitoring networks around various NRC licensed nuclear facilities. The network is intended to provide information regarding environmental radiation doses resulting from routine and accidental releases from the facility and also to indepenendently verify environmental radiation measurements performed by the licensee. The network will consist of two rings of dosimeters placed at approximately 1-2 and 3-5 miles respectively from the site plus additional locations related to population centers and places of high public interest at distances greater than five miles.

We will be placing a TLD network around the Palo Verde Nuclear Generating Station (PVNGS). This network will consist of about thirty-two such dosimeters. Our dosimeters have been designed to be attached to electrical/telephone poles. The TLD holder is a plastic cylinder about 2.5 inches in diameter by 6.5 inches long with the main body being a mesh. It is expected that the dosimeters will be placed at a height of about six to ten feet above ground level.

On October 19, 1981, Mr. H. North of our staff met with Messers. Allen, Roedel and Mann of your staff to discuss the NRC TLD network. On October 20, Mr. Mann accompanied Mr. North and a representative of the Arizona Radiation Regulatory Agency (ARRA) on a tour of prospective TLD sites in the vicinity of PVNGS. ARRA has agreed to exchange the TLD's for the NRC on a quarterly basis. It is our desire to place a significant number of TLD's on APS power and guy poles.

The possibility of placing our TLD's on APS poles was discussed with your representatives during the October 19, 1981 meeting. Messers. Allen and Mann stated that they would discuss the arrangements necessary to permit NRC use of APS poles with appropriate members of the APS staff.

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SURNAME	NORTH	WENSLAWSKI					
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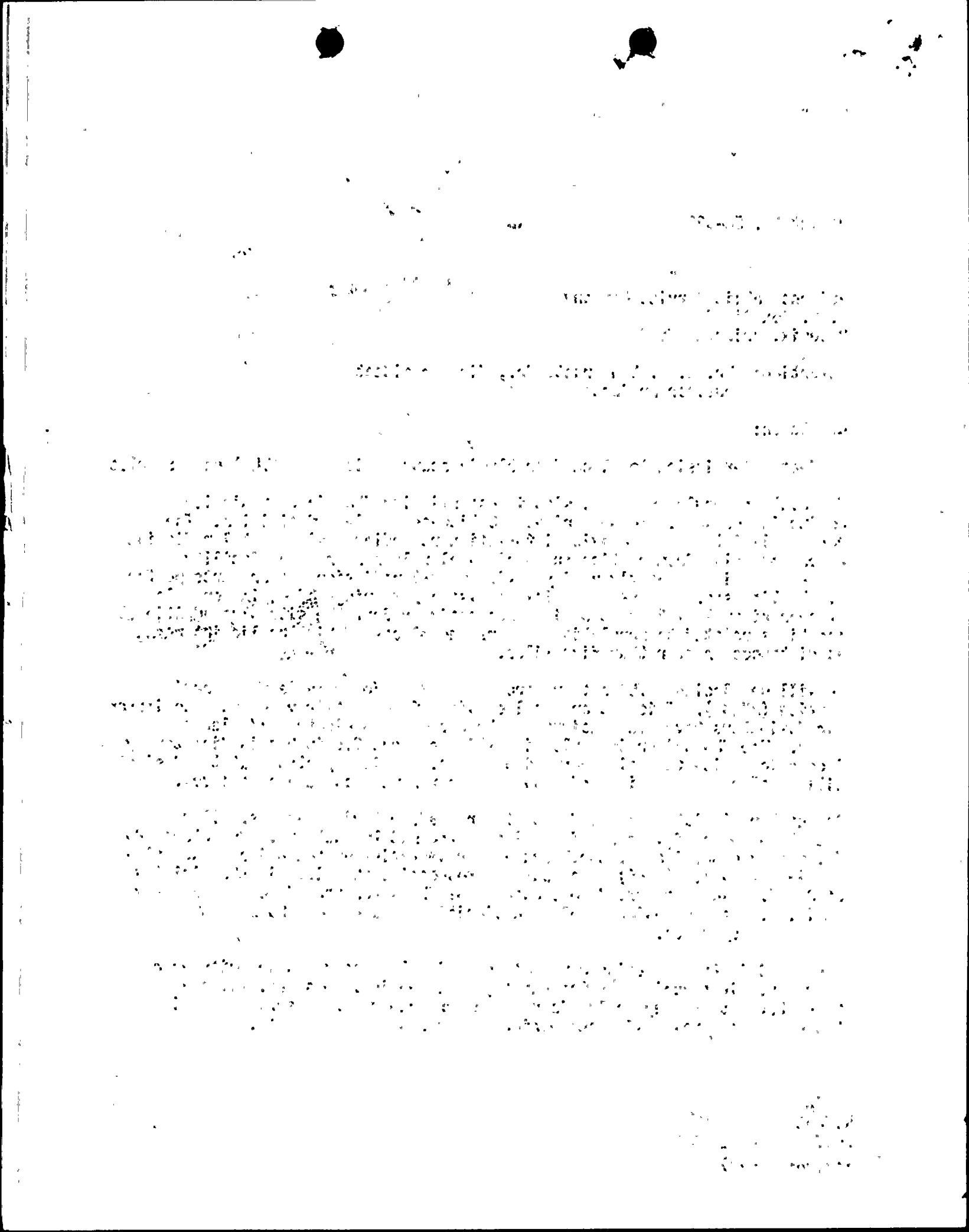

This letter is a formal request for authorization to use APS poles for this purpose. A map and list of proposed TLD placement locations is included for your reference. Presently 27 TLD placement locations propose use of APS poles. Those stations proposing such use are identified in the attached station description.

We would like to establish these stations promptly, possibly during the first week in December, 1981. The placement of the TLD stations would be by ARRA and NRC personnel and would not require the participation of APS personnel.

If you have any questions about this program or need additional information, please contact Mr. North at (415) 943-3762 or at (415) 943-3757. We would appreciate a prompt reply to this letter.

Sincerely,

Original signed by
S. A. Vorderbrueggen
F. A. Wenslawski

Frank A. Wenslawski, Chief
Reactor Radiation Safety Section

Attachments:
List of Proposed TLD Stations
Map of Proposed TLD Station Locations

cc w/attachments:
J. Allen, Manager, Nuclear Engineering
J. Mann, Senior Health Physicist

bcc: DMB/Document Control Desk (RIDS)

Distributed by RV:
Resident Inspector
RHE (w/o attach.)
Arthur C. Gehr, Esq.

DESIGNATED ORIGINAL

Certified By D. Noack

ENVIRONMENTAL RADIATION MONITORING NETWORK STATIONS
ARIZONA PUBLIC SERVICE COMPANY
PALO VERDE 1, 2 & 3

NRC Station No.	Sector	Azimuth Degrees	Zenith Miles	Description
1	ENE	74	23	Scott Libby School, APS power pole marked PS177169, at N.E. corner of school yard, pole signed "Cable Route"
2	E	92	20.8	Liberty School, N.E. corner of intersection State Route 85 and Liberty School Road, APS pole marked, WD493
3	E	89	15.1	Buckeye, east side of Miller Rd. 0.5 miles north of Baseline Rd., just north of house with chain link fence. APS pole marked, 4 11
4	ESE	103	10.7	Palo Verde, N.E. corner of intersection of Palo Verde Road and Old State Route 80, APS Pole marked, 18E 1
5	SE	140	7.4	Arlington School, Arlington School Road south of Old State Route 80. APS pole on west side of road at S.E. corner of school building, 2 APS poles north of APS air Sampler (no pole number)
6	SE	142	3.1	Elliot Road (was Ward Road) one mile west of 355th Ave (363rd Ave does not come through) at APS substation. APS dead man pole S.W. corner of substation fence. (no pole number)
7	SSE	162	2.6	Elliot Road at S.E. corner of APS property. APS power pole (no pole number)
8	S	168	2.6	Elliot Road east side of railroad gate to APS property. APS power pole (no pole number)
9	SSW	193	2.6	Elliot Road and Wintersburg Road intersection. S.W. corner of APS property APS power pole (no pole number)
10	SW	215	3.1	Elliot Road, 1.1 miles west of Wintersburg Road, south side of road. APS pole in front of trailer residence. APS power pole (no pole number).

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NRC Station No.	Sector	Azimuth Degrees	Zenith Miles	Description
11	SSW	200	1.7	Wintersburg Road-one mile north of Elliot Road, corner APS property. APS dead man pole at power line offset (no pole number).
12	SW	214	1.0	Wintersburg Road-1.5 miles north of Elliot Road. APS pole at fence just past highway cut (no pole number).
13	WSW	242	0.7	Wintersburg Road-2 miles north of Elliot Road-common with APS TLD station.
14	W	263	0.6	Wintersburg Road-2.5 miles north of Elliot Road-common with APS TLD station.
15	WNW	295	0.6	Wintersburg Road-2.8 miles north of Elliot Road-common with APS TLD station.
16	NW	325	1.0	Wintersburg Road-3.5 miles north of Elliot Road-APS power pole at N.W. corner of APS property fence line (no pole number).
17	NNW	347	1.8	Wintersburg Road-4.7 miles north of Elliot Road-APS power pole past turn in road on East side of road (no pole number).
18	N	0	2.4	Wintersburg, Wintersburg Road and Transmission Road-5.4 miles north of Elliot Road-APS power pole S.W. corner of intersection near ARRA-TLD station (no pole number).
19	NNE	18	1.5	Edd Thomas-residence-APS pole on private property-0.6 miles south of Buckeye-Salome Hwy. on 375th Ave. approximately 1 mile from Wintersburg (no pole number).
20	NE	37	2.0	Buckeye-Salome Hwy-APS gate, approximately 1.7 miles S.E. of Wintersburg. Light pole at SE corner of intersection (no pole number).

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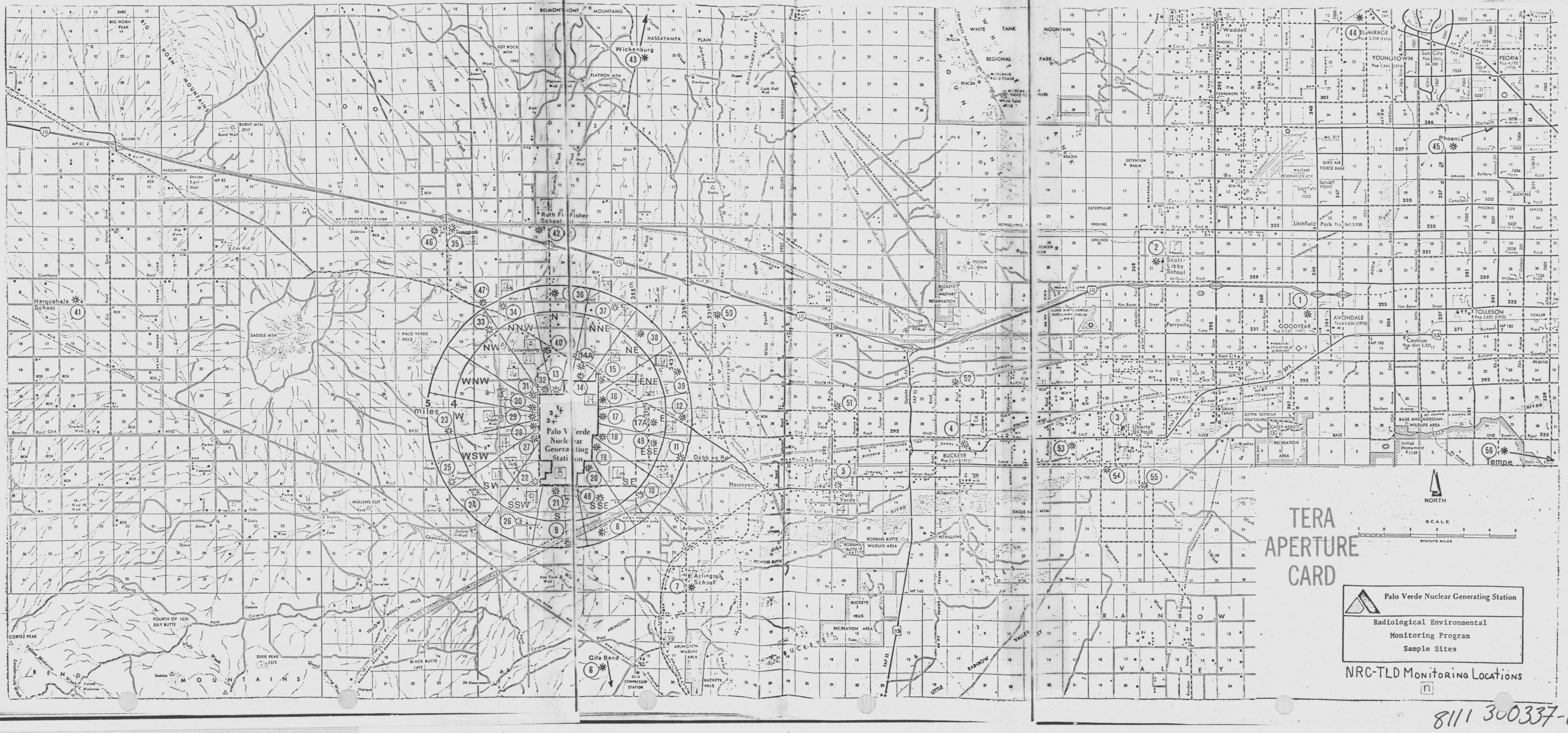
NRC Station No.	Sector	Azimuth Degrees	Zenith Miles	Description
21	ENE	58	2.3	Buckeye-Salome Hwy-APS power pole on north side of Hwy-pole marked with a metal "5". Approximately 2.5 miles S.E. of Wintersburg.
22	ENE	75	2.8	Buckeye-Salome Hwy-APS power pole on S.W. side of intersecting road (355th Ave) to Wm. Rogers residence approximately 3.4 miles from Wintersburg (no pole number).
23	E	93	4.4	Buckeye-Salome Hwy-Fence post on N.E. corner of intersection with intersecting dirt road (339th Ave). Approximately 5.6 miles from Wintersburg.
24	ESE	101	3.3	Baseline Road-351st Ave., APS pole S.E. corner of intersection, approximately 1.1 miles south of Buckeye-Salome Hwy on 351st Ave., (no pole number).
25	NNW	346	2.9	Buckeye-Salome Hwy-approximately 0.7 miles from Wintersburg (location not yet identified).
26	NNW	334	4.3	Buckeye-Salome Hwy-Fence post N.W. corner intersection of 395th Ave. Approximately 2.3 miles from Wintersburg.
27	NNW	333	7.9	Tonopah, Palo Verde Inn, S.E. corner of Inn, East of Fire Station. APS Air Sampler Pole (no pole number).
28	N	0	7.0	Ruth Fisher School-APS Pole at N.W. corner of school yard (no pole number).
29	N	9	4.2	Van Buren and 371st Ave-Street sign at intersection.
30	NNL	27	3.6	Buckeye Road and 363rd Ave., APS guy pole S.E. of intersection, (all dirt roads) (no pole number).

NRC Station No.	Sector	Azimuth Degrees	Zenith Miles	Description
31	NE	49	3.5	Lower Buckeye Road and 355th Ave., street sign at intersection, (all dirt roads).
32	ESE			Lower River Road (Dobbins Road) and 355th Ave.-(location not yet identified).
33				Arizona Radiation Regulatory Agency, 925 So. 52nd St., Tempe, Arizona, Intransit Control.

DESIGNATED ORIGINAL

Certified By D. Noack

POOR ORIGINAL



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