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Docket No. 50-263

JUN - 1 1976

Northern States Power Company
ATTN: Mr. L. O. Mayer
Director of Nuclear Support Services
414 Nicollet Mall
Minneapolis, Minnesota 55401

Gentlemen:

On May 20, 1976, the Commission issued Amendment No. 21 to Facility License No. DPR-22 for the Monticello Nuclear Generating Plant.

This amendment inadvertently transmitted several incorrect pages. Please replace pages 169 through 175 of the Technical Specifications with the attached revised pages.

Sincerely,

Original signed by W. H. Regan, Jr.

Wm. H. Regan, Jr., Chief
Environmental Projects Branch 3
Division of Site Safety and Environmental Analysis

Enclosures:
As stated

cc: w/encl: (see attached list)

| OFFICE | DSE:EP-3 | DSE:EP-3 | DSE:EP-3 | | | |
|---|---|---|---|---|---|---|
| SURNAME | MDuncan:aj | SBajwa | WRegan | | | |
| DATE | 5/28/76 | 5/28/76 | 5/28/76 | | | |

Form AEC-318 (Rev. 9-53) AECM 0240

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Northern States Power Company

cc w/encl:

Arthur Renquist, Esquire
Vice President - Law
Northern States Power Company
414 Nicollet Mall
Minneapolis, Minnesota 55401

Gerald Charnoff
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N. W.
Washington, D. C. 20036

Howard J. Vogel, Esquire
Legal Counsel
2750 Dean Parkway
Minneapolis, Minnesota 55416

Steve Gadler
2120 Carter Avenue
St. Paul, Minnesota 55108

Mr. Daniel L. Ficker
Assistant City Attorney
638 City Hall
St. Paul, Minnesota 55102

Mr. Kenneth Dzugan
Environmental Planning Consultant
St. Paul City Planning
421 Wabasha Street
St. Paul, Minnesota 55102

Sandra S. Gardebring
Special Assistant Attorney General
Counsel for Minnesota Pollution
Control Agency
1935 W. County Road B2
Roseville, Minnesota 55113

Anthony Z. Roisman, Esquire
Berlin, Roisman and Kessler
1712 N Street, N. W.
Washington, D. C. 20036

The Environmental Conservation
Library
Minneapolis Public Library
300 Nicollet Mall
Minneapolis, Minnesota 55401

Mr. D. S. Douglas, Auditor
Wright County Board of Commissioners
Buffalo, Minnesota 55313

Warren R. Lawson, M. D.
Secretary and Executive Officer
State Department of Health
University Campus
Minneapolis, Minnesota 55440

Mr. Gary Williams
Federal Activities Branch
Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Mr. Neill Thomasson
Attn: Loretto Long
Office of Radiation Programs
Environmental Protection Agency
Waterside Mall, Rm. 647A, East Tower
401 M Street, S. W.
Washington, D. C. 20460

TABLE 4.8.1
(Page 1 of 4)

MONTICELLO NUCLEAR GENERATING PLANT
RADIATION ENVIRONMENTAL MONITORING PROGRAM
SAMPLE COLLECTION AND ANALYSIS

| Type of Sample | Type of Analysis | Collection Site | Collection Frequency |
|---|---|---|---|
| )ver Water | GS (M) | 1 Sample upstream within 1000 ft of intake canal<br>1 Sample downstream within 1000 ft of discharge canal | Monthly composite of weekly samples (water & ice conditions permitting) |
| | $^{3}H$ (Q) | | Quarterly composite of monthly composite |
| Drinking Water | GB, GS (M) | 1 Sample from the City of Minneapolis Water Supply | Monthly composite of weekly samples |
| | $^{3}H$ (Q), $^{89,90}Sr$ | | Quarterly composite of monthly composite |
| Well Water<br>) | GS, $^{3}H$ | 3 Samples from wells within 5 miles of plant site including the City of Monticello well<br>1 Sample from a well greater than 10 miles away | Quarterly |
| River Bottom Sediment<br>Shoreline sediment | GS | 1 Sample upstream of plant<br>1 Sample downstream of plant<br>1 Sample from the shoreline at a recreational area | Semi-annually (when available) |
| Periphyton or Macroinvertebrates | GS, $^{89,90}Sr$ | 1 Sample upstream of plant<br>1 Sample downstream of plant | Semi-annually (when available) |

TABLE 4.8.1
(Page 2 of 4)

| Type of Sample | Type of Analysis | Collection Site | Collection Frequency |
|---|---|---|---|
| Aquatic Vegetation | GS | 1 Sample upstream of plant<br>1 Sample downstream of plant | Semi-annually (when available) |
| Clams | GS | 1 Sample upstream of plant<br>1 Sample downstream of plant | Semi-annually (when available) |
| Fish (1 sample each of two game specie) | GS | 2 Samples upstream of plant<br>2 Samples downstream of plant | Semi-annually (when available, water & ice conditions permitting) |
| Milk | $^{131}I$, $^{137}Cs$,*<br>$^{89,90}Sr$* | 1 Sample at the offsite dairy farm having the highest X/Q<br>3 Samples from dairy farms calculated to have doses from $^{131}I$ > 1 mrem./yr<br>1 Sample from 10-20 mile location | Monthly |
| Topsoil | GS , $^{90}Sr$ | From the 7 air sampling locations, and from 5 fields in the vicinity of the plant, including at least 2 fields irrigated with river water downstream of the plant; | Once every 3 years |
| Natural Vegetation | GS, $^{131}I$ | 1 Sample from field having highest X/Q (same as for milk)<br>1 Sample from a field northwest of the plant (within 2 miles)<br>1 Sample from 10-20 mile location (Same as for milk) | Semi-annually |

*Performed only on X/Q and Control Samples

TABLE 4.8.1

(Page 3 of 4)

| Type of Sample | Type of Analysis | Collection Site | Collection Frequency |
|---|---|---|---|
| Small Mammal | GS (Flesh & liver) | 1 Sample within 1 mile of site<br>1 Sample 10-20 miles from the site | Semi-annually |
| Cultivated Crops | | | |
| Leafy Green Vegetables | 131I | 1 Sample from nearest garden<br>1 Sample from 10-20 mile location | Annually (at harvest, if available) |
| Corn | GS | 1 Sample from highest X/Q farm<br>1 Sample from 10-20 mile location | Annually (at harvest, if available) |
| Potatoes | GS | 1 Sample from field irrigated with river water<br>1 Sample from 10-20 mile location | Annually (at harvest, if available) |
| Air (Particulates) | GB, GS(M) | 3 off-site locations in different sectors having the highest calculated ground level concentrations<br>level concentrations<br>1 location near residence having highest X/Q value<br>1 location near closest community<br>2 locations within 8-20 miles | Weekly |

TABLE 4.8.1
(Page 4 of 4)

| Type of Samples | Type of Analysis | Collection Site | Collection Frequency |
|---|---|---|---|
| Air (Radioiodine) | $^{131}I$ | 1 location near residence having highest X/Q value<br>1 location near closest community<br>1 location within 10-20 miles | Weekly |
| Air (TLD) | Gamma dose | 2 dosimeters at each air particulate sampling location | Quarterly |

Coding System
GB - Gross beta
GS - Gamma scan
M - Monthly
Q - Quarterly

Figure 4.8.1

MONTICELLO NUCLEAR GENERATING PLANT
RADIATION ENVIRONMENTAL MONITORING PROGRAM

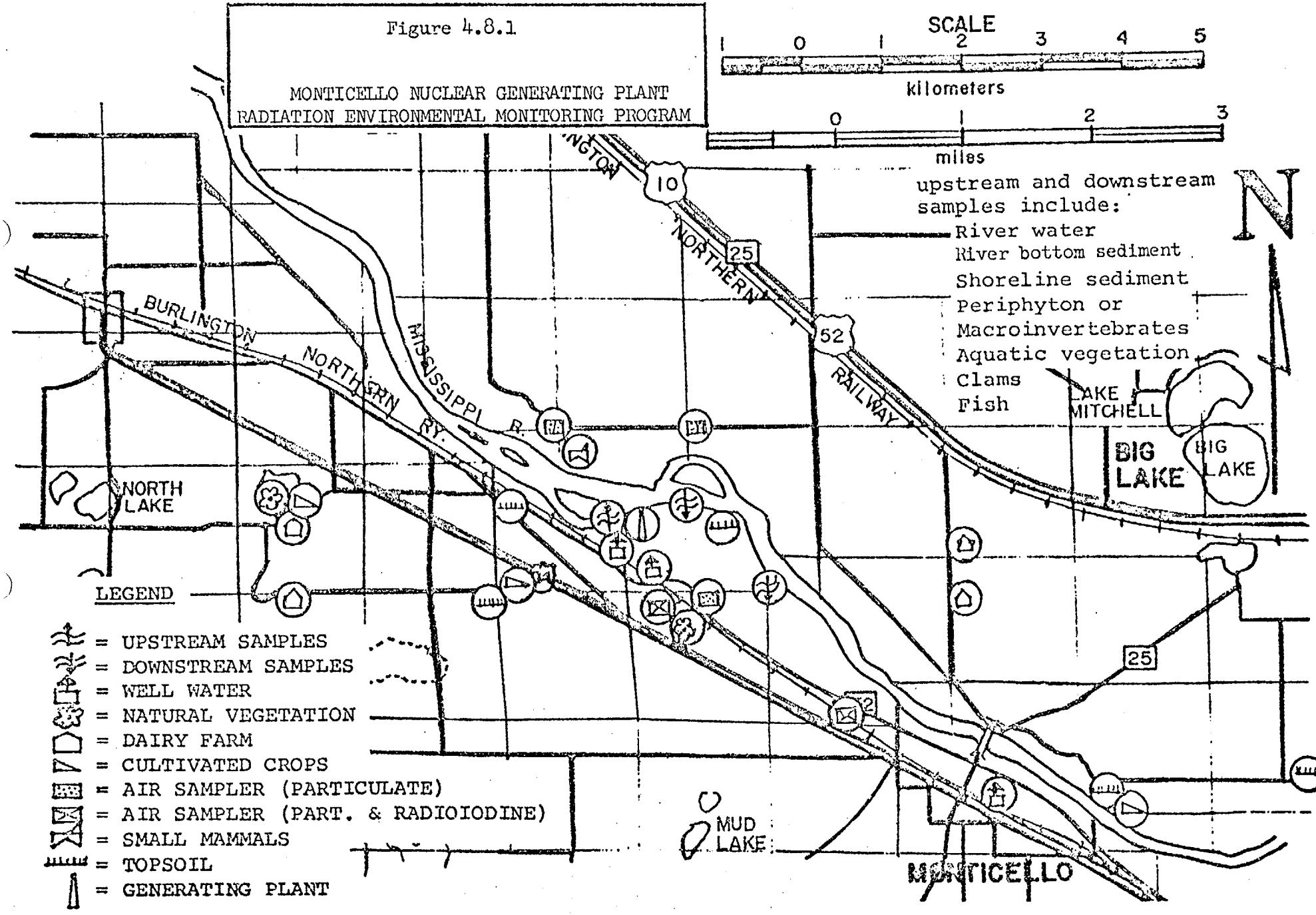
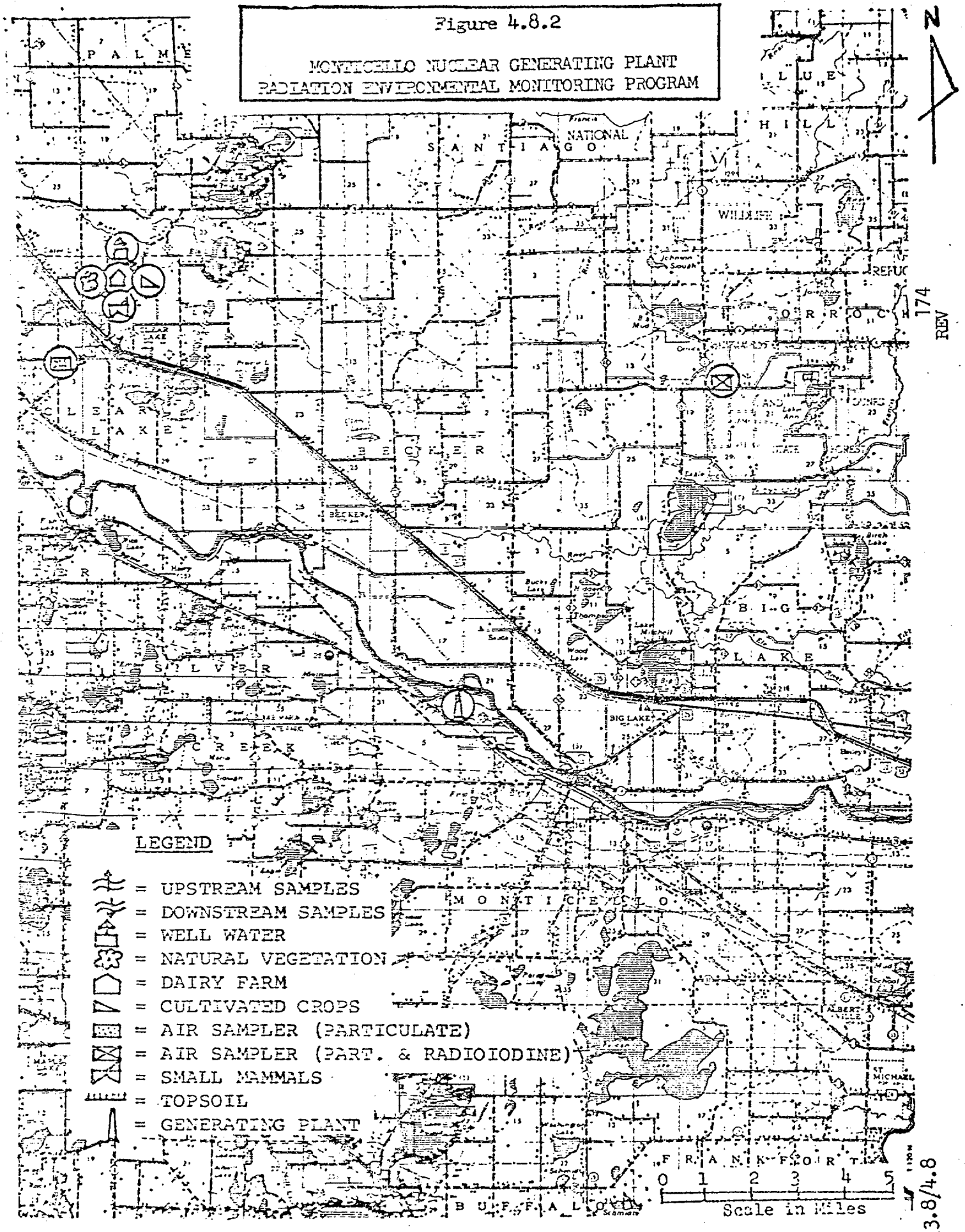


Figure 4.8.2

MONTICELLO NUCLEAR GENERATING PLANT
RADIATION ENVIRONMENTAL MONITORING PROGRAM

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## 4.8 Radiation Environmental Monitoring Program

The types of samples, the number and distribution of collection sites, and the types of analysis specified will provide data, which compared with preoperational background data, will verify the effectiveness of plant effluent control and indicate any measurable changes in environmental radioactivity due to plant operation.

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