

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)**

CONTROL NO: 4799

FROM: Northern States Power Co. Minneapolis, Minn. 54601 E.C. Ward		DATE OF DOC: 8-30-72	DATE REC'D 8-30-72	LTR	MEMO	RPT	OTHER TWX
TO: DRL		ORIG 1 unsigned	CC	OTHER	SENT AEC PDR <input checked="" type="checkbox"/> SENT LOCAL PDR <input checked="" type="checkbox"/>		
CLASS: U PROP INFO		INPUT	NO CYS REC'D 1		DOCKET NO: 50-263		
DESCRIPTION: TWX furnishing effluent data on radioactive effluent releases & radiation releases summary of emergency plan involving state agencies.....			ENCLOSURES:				
PLANT NAMES: Monticello Plant			DO NOT REMOVE				

FOR ACTION/INFORMATION

DL 8-31-72

Misc

BUTLER(L) W/ Copies	KNIEL(L) W/ Copies	VASSALLO(L) W/ Copies	ZIEMANN(L) W/ 9 Copies	KNIGHTON(ENVIRO) W/ Copies
CLARK(L) W/ Copies	SCHWENCER(L) W/ Copies	H. DENTON W/ Copies	CHITWOOD(FM) W/ Copies	YOUNGBLOOD(ENVIRO) W/ Copies
GOLLER(L) W/ Copies	STOLZ(L) W/ Copies	SCHEMEL(L) W/ Copies	DICKER(ENVIRO) W/ Copies	

INTERNAL DISTRIBUTION

<u>REG FILE</u> AEC PDR OGC, ROOM P-506A MUMFZING/STAFF CASE GIAMBUSSO BOYD-L(BWR) DEYOUNG-L(PWR) SKOVHOLT-L P. COLLINS <u>REG OPR</u> FILE & REGION (2) MORRIS STEELE	<u>TECH REVIEW</u> HENDRIE SCHROEDER MACCARY LANGE PAWLICKI SHAO KNUTH STELLO MOORE THOMPSON TEDESCO LONG LAINAS BENAROYA	VOLLMER DENTON GRIMES GAMMILL KASTNER BALLARD FINE <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD PROJECT LEADER	HARLESS <u>F & M</u> SMILEY NUSSBAUMER LIC ASST. SERVICE (L) MASON (L) WILSON (L) KARI (L) SMITH (L) GEARIN (L) DIGGS (L) TEETS (L)	WADE(E) SHAFER(F&M) BROWN(E) G. WILLIAMS(E) <u>A/T IND</u> BRAITMAN SALTZMAN <u>PLANS</u> MCDONALD DUBE <u>INFO</u> C. MILES J. Felton
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EXTERNAL DISTRIBUTION

1-LOCAL PDR Minneapolis, Minn. 1-DTIE(LAUGHLIN) 1-NSIC(BUCHANAN) 1-ASLB-YORE/SAYRE WOODWARD/H. ST. 16-CYS ACRS HOLDING	(1)(5X9)-NATIONAL LAB'S ANL/ORNL/PNL 1-R. CARROLL-OC, GT-B227 1-R. CATLIN, A-170-GT 1-CONSULANT'S NEWMARK/BLUME/AGABIAN	1-PDR-SAN/LA/NY 1-GERALD LELLUCHE BROOKHAVEN NAT. LAB 1-BOLAND, IDAHO FALLS, IDAHO(50-331 Only) 1-RD..MULLER.. F-309GT
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TWX INCOMING

THIS IS NORTHERN STATES POWER CO

414 NICOLLET MALL

MPLS MINN

AUGUST 30, 1972

PLEASE SEND BY TELETYPE TO YOUR BETHESDA OFFICE

1972 AUG 30 PM 2 39

U.S. ATOMIC ENERGY COMM.
TWX UNIT

MR JIM SHEA

DIRECTORATE OF LICENSING

BETHESDA OFFICE

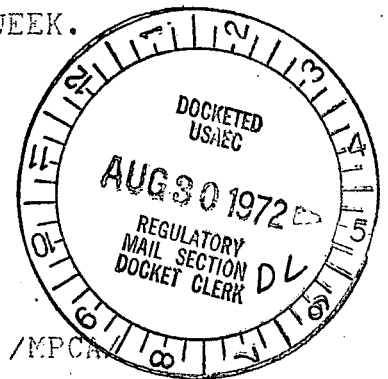
Regulatory

File Cy.

50-263

FOLLOWING IS INFORMATION YOU REQUESTED IN TELECOMLAST WEEK.

MONTICELLO NUCLEAR GENERATING PLANT
RADIOACTIVE EFFLUENT RELEASES
MONITORING INFORMATION TELEMETERED TO
THE MINNESOTA POLLUTION CONTROL AGENCY /03- /MPCA



IN OCTOBER 1971 AX THE MPCA REQUESTED NSP TO PROVIDE ON -SITE
MONITORING AND ACCESS TO EFFLUENT DATA FOR THE MONTICELLO PLANT. IT
WAS POINTED OUT IN THE REQUESTING LETTER THAT THE INFORMATION WOULD
PROVIDE CONTINUOUS MONITORING TO INITIATE AND TO BE USED IN
AN EMERGENCY PLAN. IT FURTHER WOULD PROVIDE THE MOST COMPLETE DETAIL
ON BOTH THE AMOUNTS AND TYPES OF RADIOACTIVE WASTES WHICH ARE
DISCHARGED. IT WAS REQUESTED THAT THE FOLLOWING EFFLUENT DATA BE
TELEMETERED TO THE MPCA AND BE MADE AVAILABLE TO THE MINNESOTA
DEPARTMENT OF HEALTH.

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1. MAIN STCK MONITORXXXXXXXXXXXXX MAIN STACK MONITOR
2. REACTOR BUILDING VENT MONITOR
3. MONITOR OR RADWASTE DRAIN LINE TO DISCHARGE CNX CANAL
4. CANAL MONITOR

THE MPCA ALSO REQUESTED ACCESS TO ALL MONTICELLO PLANT EFFLUENT
RELEASE LOGS AND AXN DATA.

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IN NOVEMBER 1971 A MEETING WAS HELD WITH PCA TO ESTABLISH AN UNDERSTANDING ON THE FCXX EFFLUENT RELEASE DATA THAT WOULD BE MADE AVAILABLE TO MPCA. FURTHER, MPCA WAS TO BE FURNISHED WITH EFFLUENT SAMPLES /PRINCIPALLY THE ABOVE RELEASE SOURCES/ FOR RADIO-ANALYSIS AT THE MINNESOTA DEPARTMENT OF HEALTH FACILITIES. REGARDING TELEMETERING, SEVERAL MEETINGS WERE HELD WITH MPCA PERSONNEL ALTHOUGH NO COMMITMENTS WERE MADE TO INSTALL SPECIFIC TELEMETERING HARDWARE.

IN MARCH 1972 NSP INFORMED THE MPCA THAT AFTER DETAILED STUDY IT WAS CONCLUDED THAT THE TELEMETERED DATA BY ITSELF IS NOT COMPLETE ENOUGH NOR ACCURATE ENOUGH TO BE OF MUCH HELP TO THE MPCA. INSTEAD NSP OFFERED TO GIVE AN MPCA STAFF MEMBER COMPLETE ACCESS TO THE PLANT ON A PART OF FULL-TIME BASIS. IN THIS WAY THE MPCA TECHNICIAN WOULD HAVE ACCESS TO THE SAME RANGE OF DATA AT THE SAME TIME AS IT IS KNOWN TO THE NSP STAFF.

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THE PROPOSAL OF NSP TO HAVE AN MPCA STAFF MEMBER AT THE PLANT WAS REVIEWED AT THE MAY 8, 1972 MEETING OF THE MPCA. THE MPCA STAFF REPORTED THAT THIS PROPOSAL WAS NOT ADEQUATE AND THAT SINCE TELEMETRY IS A CONTINUOUS 24-HOUR MONITORING SYSTEM, IT IS PREFERRED. THE MPCA DESIGNATED THREE AGENCY MEMBERS AS A COMMITTEE TO MEET WITH OFFICIALS OF NSP TO WORK OUT SATISFACTORY ARRANGEMENTS. A MEETING WAS HELD ON MAY 18, 1972 WITH THE PCA COMMITTEE AND NSP MANAGEMENT. NSP AND ITS CONSULTANT /DR M I GOLDMAN-NUS/ SPENT CONSIDERABLE EFFORT TO EXPLAIN THE INADEQUACY OF A TELEMETERING SCHEME ESPECIALLY ESPECIALLY ESPECIALLY IN CASE OF EMERGENCIES. HIGHLY STRESSED WAS THE INABILITY OF MAKING INTELLIGENT DECISIONS BASED ON KNOX KNOWLEDGE ABOUT SEVERAL TELEMETERED PLANT PARAMETERS. NEVERTHELESS AFTER CONSIDERABLE DISCUSSION AT THE MEETING THE FOLLOWING GENERAL PROGRAM WAS DEVELOPED.

1. MPCA WILL HAVE THE RIGHT TO STATION AN EMPLOYEE AT THE MONTICELLO PLANT ON A FULL-TIME BASIS.

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2. THE NSP STFF AND THE MPCA STAFF WILL MUTUALLY AGREE ON A MINIMUM REASONABLE NUMBER OF SIGNAL INPUTS FOR BOTH GAS AND LIQUID DISCHARGES, IN ORDER TO PROVIDE AN ALERT SIGNAL WHICH WILL CONSTITUTE A REASON FOR THE MPCA TO CALL THE PLANT FOR FURTHER INFORMATION.

3. EACH INPUT WILL AUTOMATICALLY GIVE AN ALERT SIGNAL AT THE MPCA OFFICES IN RAXX REAL TIME.

4. THE MPCA WILL DETERMINE THE LEVEL OF CONCERN ON EACH OF THESE PARAMETERS WHICH WILL TRIGGER THE ALERT SIGNALS.

5. WHEN THE MPCA STAFF CALLS MONTICELLO IN RESPONSE TO THE ALERT SIGNAL, NSP WILL FURNISH WHATEVER PERTINENT INFORMATION MAY BE REQUESTED, EITHER THROUGH A CHECK LIST OR SOME OTHER JOINTLY AGREED PROCEDURE.

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6. IT WAS FURTHER AGREED THAT A STIPULATION AGREEMENT WOULD BE EXECUTED BY MPCA AND NSP TO COVER THE REQUIRED SIGNAL SYSTEM. ON JULY 21, 1972 THE PARTIES EXECUTED AN AGREEMENT TO REPRESENT THE ENTIRE UNDERSTANDING ESTABLISHED AT THE MAY 18 MEETING. THE FEATURES OF THE AGREEMENT ARE.

1. NSP SHALL PROVIDE AN AUTOMATIC REAL TIME SIGNAL SYSTEM FOR THE FOLLOWING DISCHARGE POINTS FROM THE MONTICELLO PLANT.

A. MAIN STACK GASEOUS RELEASE

B. DISCHARGE CANAL

C. ONE ADDITIONAL POINT SELECTED BY THE MPCA

/SUBSEQUENTLY SELECTED AS RADWASTE DRAIN LINE

WHICH DISCHARGES TO THE CANAL/

2. THE LEVELS AT WHICH THE SIGNAL SYSTEM SHALL OPERATE SHALL BE ESTABLISHED BY THE MPCA AND MAY BE REVISED FROM TIME TO TIME BY THE MPCA.

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IN THE EVENT THAT A SIGNAL IS RECEIVED, THE PCA SHALL /PRIOR TO TAKING FURTHER ACTION/ VERIFY THE DISCHARGE LEVELS CAUSING THE SIGNAL WITH NSP. IN CONNECTION WITH SUCH VERIFICATION, THE PCA MAY REQUEST, AND NSP SHALL FURNISH, ADDITIONAL INFORMATION IN ACCORDANCE WITH A PROCEDURE AND SCOPE TO BE MUTUALLY AGREED TO BY THE PARTIES.

4. THE PCA AT ITS EXPENSE SHALL HAVE THE RIGHT TO STATION AN EMPLOYEE IN THE PLANT ON A FULL -TIME OR PART -TIME BASIS FOR THE PURPOSE OF MONITORING RADIOACTIVE CXX DISCHARGE.

CURRENT DISCUSSIONS ARE CENTERED AROUND DETERMINING ACTUAL HARDWARE THAT WILL BE INSTALLED TO EFFECT THE REQUIRED SIGNALS. IT IS PLANNED TO ADD THREE RECORDERS WITH FEATURES FOR AN ADJUSTABLE TRIP, WITH THESE RECORDERS RECEIVING INPUT SIGNALS FOR EXISTING ELECTRONIC EQUIPMENT THROUGH SUITABLE ISOLATION CIRCUITRY. SIGNAL LIGHTS WILL BE INSTALLED AT THE MPCA OFFICES AND THE "GO/NO GO" SIGNALS WILL BE TRANSMITTED VIA LEASED TELEPHONE CIRCUITS.

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MONTICELLO PLANT RADIATION RELEASE

SUMMARY OF EMERGENCY PLAN INVOLVING STATE AGENCIES

THE PLANT EMERGENCY PROCEDURES ASSIGN THE RESPONSIBILITY TO AN EMERGENCY DIRECTOR WHO IS THE PLANT MANAGER OR HIS DESIGNEE. A GENERAL EMERGENCY WILL EXIST WHEN A LOCAL OR SITE EMERGENCY EXTENDS TO THE IMMEDIATE ENVIRONMENT OR TO AREAS BEYOND THE SITE BOUNDARY OR THERE IS A SUDDEN HIGH LEVEL RELEASE FROM THE PLANT STACK OR THE DISCHARGE CANAL THAT CAN CAUSE CONDITIONS RESULTING IN SHORT-TERM RADIATION EXPOSURE IN EXCESS OF 0.5 REM TO MEMBERS OF THE PUBLIC AT THE SITE BOUNDARY.

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FOR A LIQUID RELEASE TO THE RIVER IF THE CONCENTRATION IN THE
RIVER AFTER MIXING EXCEEDS PART 20 LIMITS FOR THE MOST
RESTRICTIVE ISOTOPEs, THE MINNESOTA DEPARTMENT OF HEALTH AND THE
MINNEAPOLIS ST PAUL WATER DEPARTMENTS WILL BE IMMEDIATELY NOTIFIED.
IN ADDITION APPROPRIATE STATE AND LOCAL AGENCIES WILL BE
NOTIFIED THAT A GENERAL EMERGENCY EXISTS. SEVERAL TEAMS
WILL BE DISPATCHED TO OBTAIN SAMPLES IN THE DISCHARGE CANAL
AND SAMPLES OF THE RIVER. NSP FURTHER WILL DISPATCH MONITORING
TEAMS DOWN-RIVER TO ASSIST THE MINNESOTA DEPARTMENT OF HEALTH
IN DETERMINING THE PROGRESS AND ACTIVITY OF THE CONTAMINATION.

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84 IT IS DETERMINED THAT THE RADIATION LEVEL AT THE EXCLUSION
AREA FENCE BOUNDARY EXCEEDS 1 REM PER HOUR, EVACUATION OF
OFF-SITE PEOPLE WILL BE EFFECTED. THE PLANT EMERGENCY DIRECTOR
/OR HIS DESIGNEE/ WILL NOTIFY THE WRIGHT COUNTY SHERIFF WHO
WILL BE ADVISED OF THE HAZARD AND TOLD WHAT AREA SHOULD BE
EVACUATED OR RESTRICTED. THE WRIGHT COUNTY SHERIFF
WILL CALL THE STATE HIGHWAY PATROL, SHERBURNE COUNTY
SHERIFF, MINNESOTA DEPARTMENT OF HEALTH, RAILROAD, LOCAL AGENCIES,
AND CIVIL DEFENSE GROUPS REQUIRED TO CARRY OUT THE EVACUATION AND
TRAFFIC CONTROL PLAN. IN ADDITION, THE EMERGENCY DIRECTOR WILL
INDIVIDUALLY CONTACT EACH OF THE ABOVE GROUPS TO VERIFY THAT
COMMUNICATIONS HAVE BEEN PROPER.

E C WARD

DIRECTOR ENGINEERING VICE PRESIDENTIAL STAFF

N S P MPLS

MON PLS

END OR GA PLS

RECD OK END EAP

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