TIC

NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

December 5, 1980

Mr. James G. Keppler
Director, Region III
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 and 50-306
IE Bulletin No. 79-01B

Enclosed are revised data sheets for Bulletin No. 79-01B. As requested, the areas of submergence and operating time were addressed for the BIW cable. The other data sheets are enclosed to clear up the qualification of pressure and to note the addition of Conax fittings for limit switches.

Yours truly,

DE Gilberts

D. E. Gilberts
Senior Vice President
Power Supply

cc: Mr. G. Charnoff
Mr. C. D. Feierabend, NRC Resident Inspector
NRC Office of Inspection and Enforcement
Washington, D. C. 20555

Enclosures

DEG:nk

734

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Docket No. 50-282 and 50-306

LETTER DATED DECEMBER 5, 1980
RESPONDING TO NRC REQUEST
FOR INFORMATION IN IE BULLETIN 79-01B

Northern States Power Company, a Minnesota corporation, by this letter dated December 5, 1980, hereby submits information in response to NRC request for information concerning IE Bulletin No. 79-01B.

This request contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

By: D E Gilberts
D. E. Gilberts
Senior Vice President
Power Supply

On this 5th day of December, 1980, before me a notary public in and for said County, personally appeared D. E. Gilberts, Senior Vice President Power Supply, and being first duly sworn acknowledged that he is authorized to execute this document on behalf of Northern States Power Company, that he knows the contents thereof and that to the best of his knowledge, information and belief, the statements made in it are true and that it is not interposed for delay.

Jeanne M Hacker

JEANNE M. H[illegible]KER
NOTARY PUBLIC - MINNESOTA
HENNEPIN COUNTY
My Commission Expires May 6, 1985

SYSTEM COMPONENT EVALUATION WORKSHEET

Rev. 5
11/25/80

UNIT: Prairie Island 1&2

DOCKET: 50-282 & 50-306

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF*		QUALIF METHOD	OUTSTANDING ITEMS
	PARAMETER	SPECIFICATION	QUALIFICATION	SPEC.	QUALIF.		
SYSTEM: Electrical PLANT ID NO.: None COMPONENT: Instrument Cable MANUFACTURE: Boston Insulated Wire MODEL NUMBER: Various FUNCTION: Various Electrical Cables ACCURACY: SPEC.NR DEMON:NR SERVICE: Various LOCATION: Aux Bldg/Cnt FLOOD LEVEL ELEV: 706 ABOVE FLOOD LEVEL: NO	OPERATING TIME	30 days	111 days	7	8	TYPE TEST	NONE
	TEMP. Deg. F	268°F	316°F	1	4	TYPE TEST	NONE
	PRESSURE (PSIA)	60.7psia	104.7psia	1	4	TYPE TEST	NONE
	RELATIVE HUMIDITY (%)	100%	100%	6	4	TYPE TEST	NONE
	CHEMICAL SPRAY	H_3BO_3/NaOH pH 9.0-9.5	H_3BO_3/NaOH pH 4.0-10.0	2	5	TYPE TEST	NONE
	RADIATION	3.6×10^7 RAD	2×10^8 RAD	3	4	TYPE TEST	NONE
	AGING		40 years		4	TYPE TEST	NONE
	SUB-MERGENCE	5 minutes	14 days	See Note 1	4	TYPE TEST	NONE

*DOCUMENTATION REFERENCES:

1) FSAR Chap 5, Fig. 5.2-7
2) FSAR Chap 6, Sect. 6.4.3
3) FSAR Chap 7, Pg. 7.5-12
4) BIW Report #B901; Sept. 1969
5) BIW Report #B904; July 15, 1970
6) FSAR Chap 5 Table 5.4-4
7) Engineering Evaluation
8) Environmental Qualification Test Report of Raychem N-MCK Nuclear Motor Connection Kits for Raychem Corp.: Report No. 58642-1, July 29, 1[illegible]

NOTES:

1) The only application where BIW cable is potentially susceptible to submergence is one that has the above defined operating time.

SYSTEM COMPONENT EVALUATION WORKSHEET

Rev. 5
11/25/80

UNIT: Prairie Island Unit 1 & 2

DOCKET: 50-282 & 50-306

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF*		QUALIF METHOD	OUTSTANDING ITEMS
	PARAMETER	SPECIFICATION	QUALIFICATION	SPEC.	QUALIF.		
SYSTEM: Cntmt Purge (ZP) PLANT ID NO.: See Note 1 COMPONENT: Limit Switch	OPERATING TIME	2 HOURS	200 hr	1	4		NONE
	TEMP. Deg. F	161° F	200° F	2	4		NONE
MANUFACTURER: NAMCO	PRESSURE (PSIA)	14.6 psia	2.6psia	3	5		See Note 2
MODEL NUMBER: EA-170	RELATIVE HUMIDITY (%)	NOT REQUIRED	100%		4		NONE
FUNCTION: Position Indicator	CHEMICAL SPRAY	NOT REQUIRED					NONE
ACCURACY: SPEC. NR DEMON: NR	RADIATION	2.7 x 10^7 RADS	2.07 X 10^8 RADS	1	4		NONE
SERVICE: Unit I Cnt Purge LOCATION: Annulus 1	AGING		200hrs @ 200°F 100,000 cycles		4		NONE
FLOOD LEVEL ELEV: NR ABOVE FLOOD LEVEL: NR	SUB-MERGENCE	NOT REQUIRED					NONE

*DOCUMENTATION REFERENCES:

1) Engineering Evaluation
2) FSAR Fig. G.3-4
3) FSAR Fig. G.3-5
4) ACME-Cleveland Development Co. -Qualification of NAMCO Controls Limit Switch-Model EA-170, REV. 1 dated 7/24/78
5) Letter from Robert Kantner (NAMCO) to Paul T. Koska (NSP) dated November 18, 1980.

NOTES:

1) Limit switches for valves: CV-31310,CV-31312 CV-31569, CV-31621, CV-31622, CV-31633.
2) 2.6 psia is a partial vacuum compared to standard mean sea level pressure (14.7 psia), therefore satisfies the specification of 14.6 psia

A.6.5

NAMCO CONTROLS

7567 TYLER BOULEVARD • MENTOR, OHIO 44060 • (216) 946-9900

November 18, 1980

Mr. Paul T. Roska
Northern States Power Company
Prairie Island Nuclear Generating Plant
R.R. #2
Welch, Minnesota 55089

Subject: EA170-__302 Limit Switch

Dear Mr. Roska:

We are replying to your recent letter requesting information regarding the pressures to which the subject switch is qualified. You specifically mentioned a partial vacuum.

The EA170-__302 switch was not pressure tested during qualification since the intended use of this switch is outside of the containment area. During manufacture of this model switch, it is subjected to an internal pressure of 12 PSI in order to check it for gasket leaks.

The EA180 switch was subjected to a maximum pressure of 70 PSI during LOCA testing and each switch is internally pressurized to 12 PSI during fabrication.

Yours very truly,

Robert H. Kantner

Robert H.Kantner
Staff Sales Engineer
NAMCO CONTROLS

RHK/kg

cc: D. Clark
I. Scheel

SYSTEM COMPONENT EVALUATION WORKSHEET

Rev. 5
11/25/80

UNIT: Prairie Island 1 & 2

DOCKET: 50-282 & 50-306

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF*		QUALIF METHOD	OUTSTANDING ITEMS
	PARAMETER	SPECIFICATION	QUALIFICATION	SPEC.	QUALIF.		
SYSTEM: CNT Purge (ZP) PLANT ID NO.:	OPERATING TIME	2 HOURS		5			See Note 2
COMPONENT: Limit Switch	TEMP. Deg. F	268°F		1			See Note 2
MANUFACTURER: NAMCO	PRESSURE (PSIA)	60.7psia		1			See Note 2
MODEL NUMBER: D2400X	RELATIVE HUMIDITY (%)	100%		4			See Note 2
FUNCTION: Closed Indication	CHEMICAL SPRAY	H_3BO_3/NaOH pH 9.0 - 9.5		2			See Note 2
ACCURACY: SPEC. NR DEMON: NR	RADIATION	3.6×10^7 Rads		3			See Note 2
SERVICE: Purge Exh 1&2 Purge Supply 1&2 LOCATION: CNT	AGING						See Note 2
FLOOD LEVEL ELEV: 706 ABOVE FLOOD LEVEL: Yes	SUB-MERGENCE						None

*DOCUMENTATION REFERENCES:

1) FSAR chap 5 Figure 5.2-7
2) FSAR chap 6 Sect 6.4.3
3) FSAR chap 7 Page 7.5-12
4) FSAR chap 5 Table 5.4-4
5) Engineering Evaluation

NOTES:

1) Switches for Valves: CV-31311, CV-31315
CV-31634, CV-31636
(Closed Indication Switch)

2) Not Environmentally Qualified

Will be replaced during next outages.
Req. #'s: G-655318 & G680001. Will install
Conax fittings to hermetically seal switches
during next outages.

SYSTEM COMPONENT EVALUATION WORKSHEET

Rev. 5
11/25/80

UNIT: Prairie Island Unit 1 & 2

DOCKET: 50-282 & 50-306

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION REF*		QUALIF METHOD	OUTSTANDING ITEMS
	PARAMETER	SPECIFICATION	QUALIFICATION	SPEC.	QUALIF.		
SYSTEM: Cntmt Purge (ZP) PLANT ID NO.: See Note 1 COMPONENT: Limit Switch MANUFACTURER: NAMCO MODEL NUMBER: D 2400 X FUNCTION: Position Indicated ACCURACY: SPEC. NR DEMON: NR SERVICE: CNTMT Purge Unit 1 & 2 LOCATION: Containment FLOOD LEVEL ELEV: 706' ABOVE FLOOD LEVEL: YES	OPERATING TIME	2 HOURS		1			See Note 2
	TEMP. Deg. F	268°F		2			See Note 2
	PRESSURE (PSIA)	60.7 psia		2			See Note 2
	RELATIVE HUMIDITY (%)	100%		5			See Note 2
	CHEMICAL SPRAY	H_3BO_3/NaOH pH 9.0 - 9.5		3			See Note 2
	RADIATION	3.6×10^7 RADS		4			See Note 2
	AGING						See Note 2
	SUB-MERGENCE	NOT REQUIRED					NONE

*DOCUMENTATION REFERENCES:

1) Engineering Evaluation
2) FSAR Chap. 5 Fig. 5.2-7
3) FSAR Chap. 6. Sec.6.4.3
4) FSAR Chap 7. page 7.5-12
5) FSAR 5. Table 5.4-4

NOTES:

1) Limit switches for valves: CV-31313
CV-31317
CV-31570
CV-31575

2) Not environmentally qualified.
Will replace next outage.
Req. #'s: G655318 & G680001. Will install Conax fittings to hermetically seal switches during next outages.