

DUKE POWER COMPANY

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CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

July 16, 1985

TELEPHONE
(704) 373-4531

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

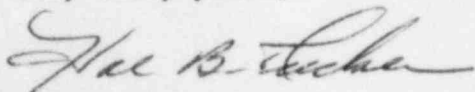
Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

Subject: McGuire Nuclear Station
Docket Nos. 50-369, -370

Dear Sir:

The 1984 update to the McGuire Nuclear Station Final Safety Analysis Report which was transmitted by my letter dated July 1, 1985, contained several administrative errors. Please find attached corrections to the 1984 update.

Very truly yours,



Hal B. Tucker

WHM:scs

Attachments

cc: w/o attachment

Dr. J. Nelson Grace, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

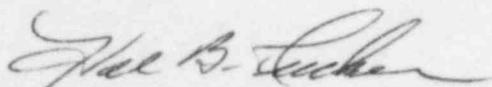
Mr. W. T. Orders
NRC Resident Inspector
McGuire Nuclear Station

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PDR ADOCK 05000369
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1/13

Mr. Harold R. Denton, Director
July 16, 1985
Page 2

HAL B. TUCKER, being duly sworn, states that he is Vice President of Duke Power Company; that he is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this revision to the McGuire Nuclear Station Final Safety Analysis Report and that all statements and matters set forth therein are true and correct to the best of his knowledge.



Hal B. Tucker, Vice President

Subscribed and sworn to before me this 16th day of July, 1985

Notary Public

My Commission Expires:

September 20, 1989

DUKE POWER COMPANY
APPLICATION FOR LICENSES
DOCKET NO. 50-369, -370

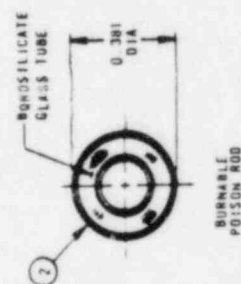
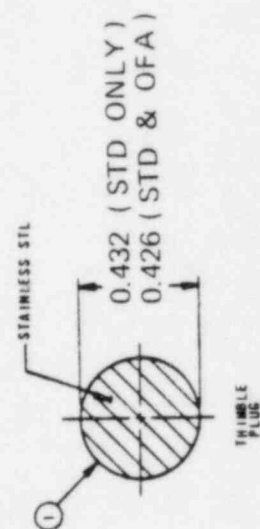
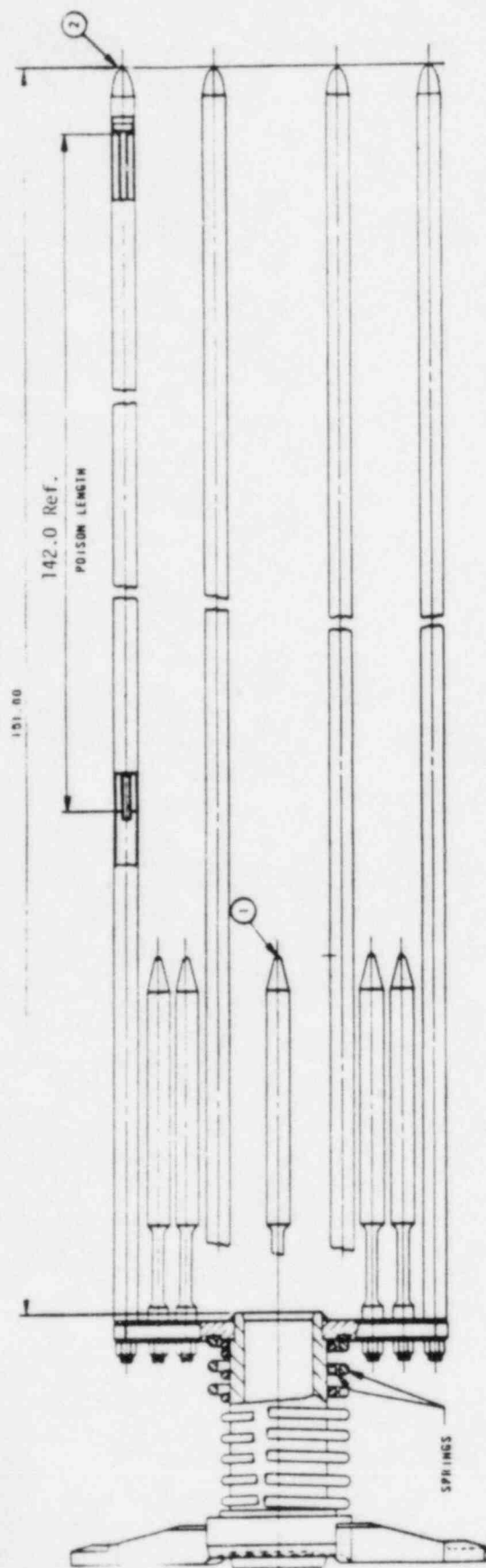
July 16, 1985
McGuire Nuclear Station
Final Safety Analysis Report

Remove These Pages

Figure(s) 4.2.3-4
Figure(s) 4.2.3-5, 4.2.3-6
Figure(s) 4.2.3-7, 4.2.3-8
Figure(s) 4.2.3-9, 4.3.2-1A
Table(s) 6.3.2-2 thru 6.3.2-3A 1 of 2

Insert These Pages

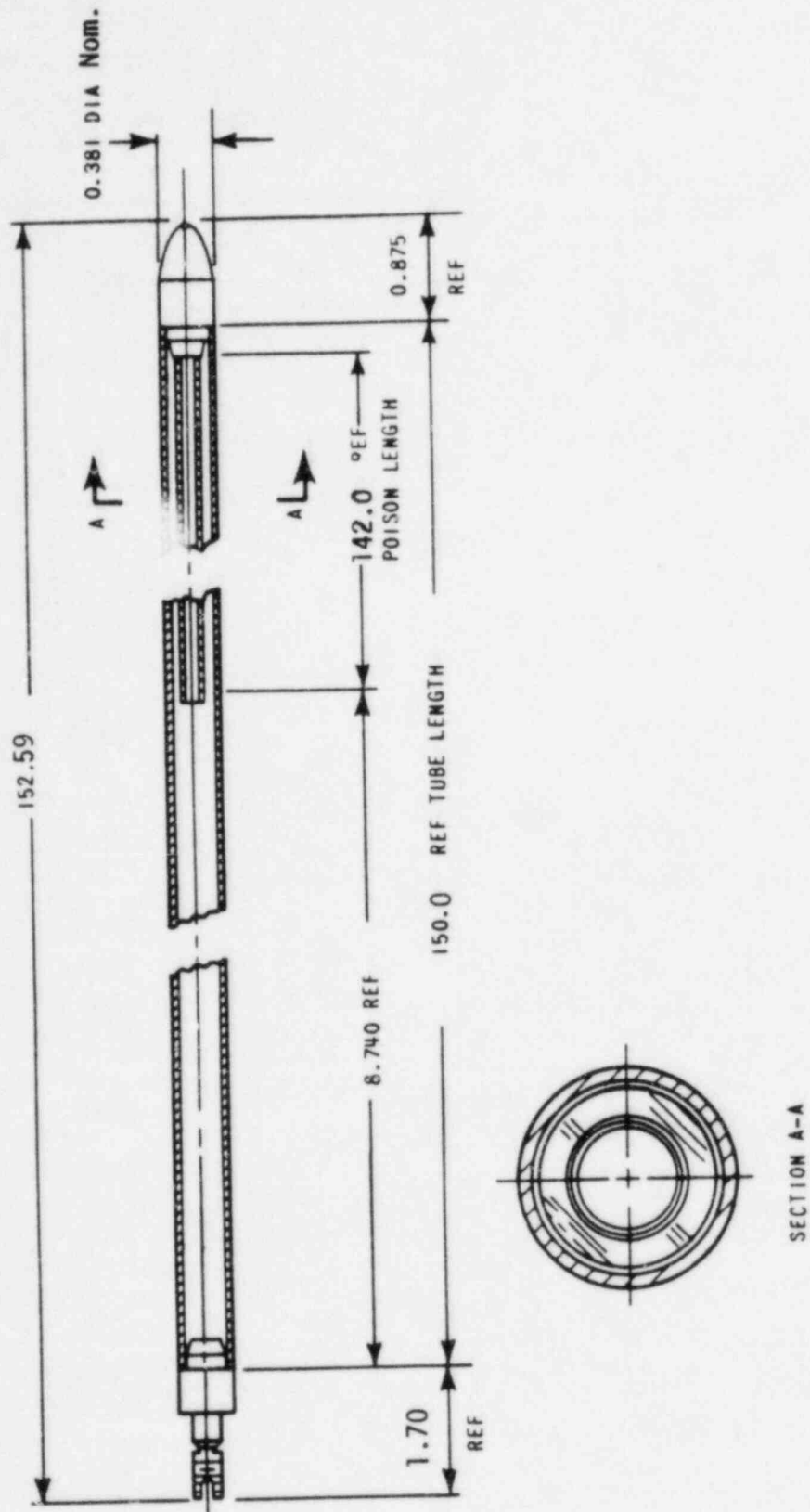
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Figure(s) 4.2.3-6, 4.2.3-7
Figure(s) 4.2.3-8, 4.2.3-9
Figure(s) 4.3.2-1, 4.3.2-1A
Table(s) 6.3.2-2, 6.3.2-3A 1 of 2



BURNABLE POISON ASSEMBLY
McGUIRE NUCLEAR STATION

FIGURE 4.2.3-4

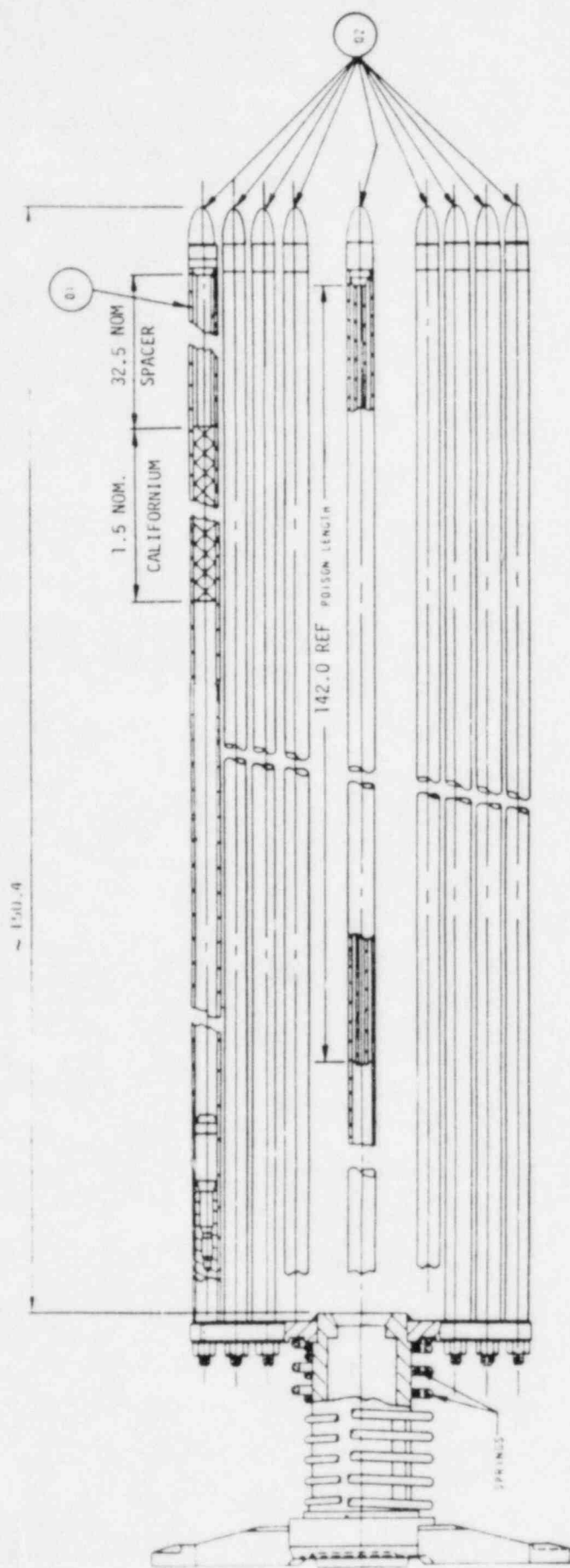
1984 UPDATE



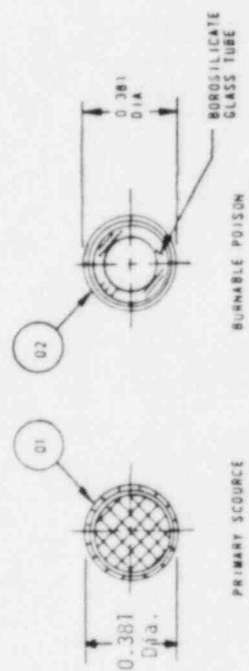
BURNABLE POISON ROD-
CROSS SECTION

McGUIRE NUCLEAR STATION

Figure 4.2.3-5



NOTE ALL DIMENSIONS ARE IN INCHES

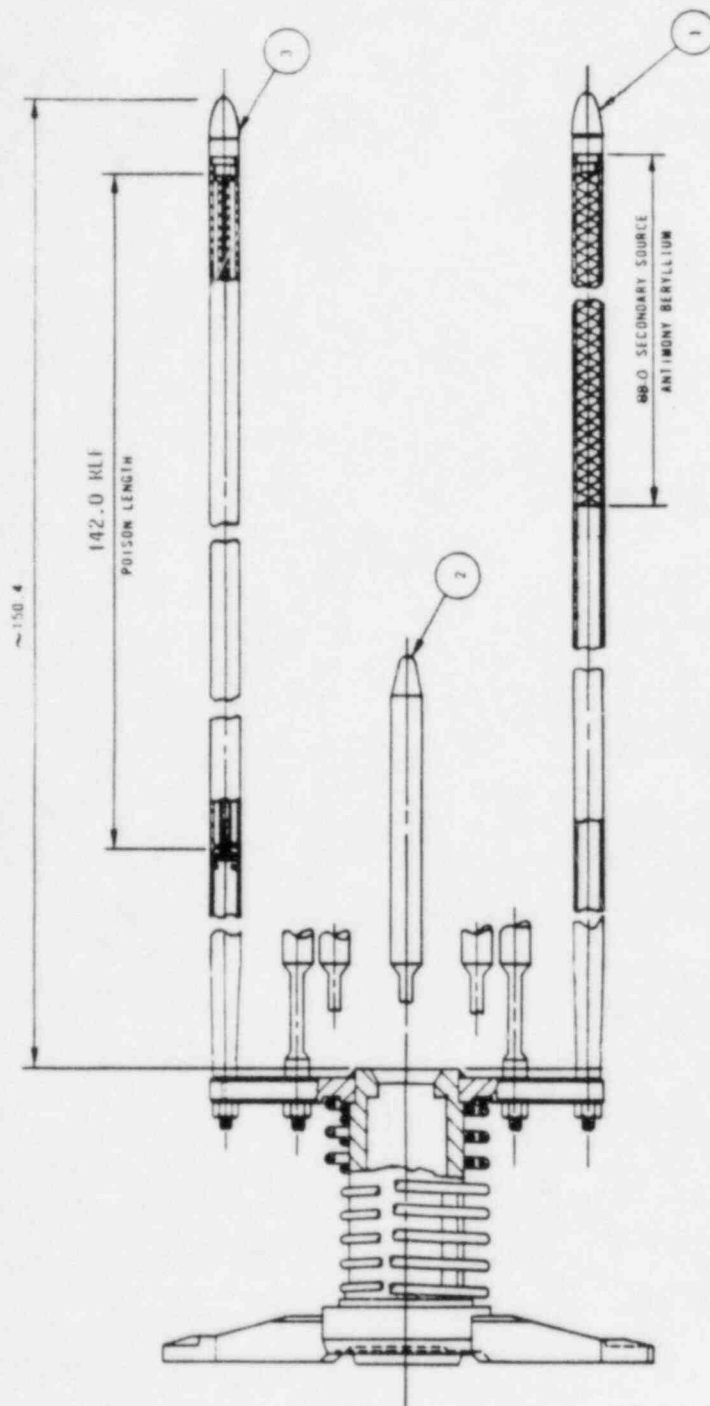


PRIMARY SOURCE ASSEMBLY
McGUIRE NUCLEAR STATION
Figure 4.2.3-6

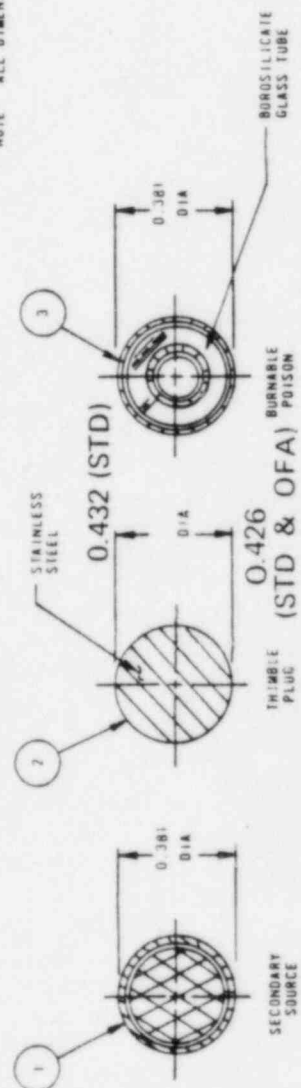


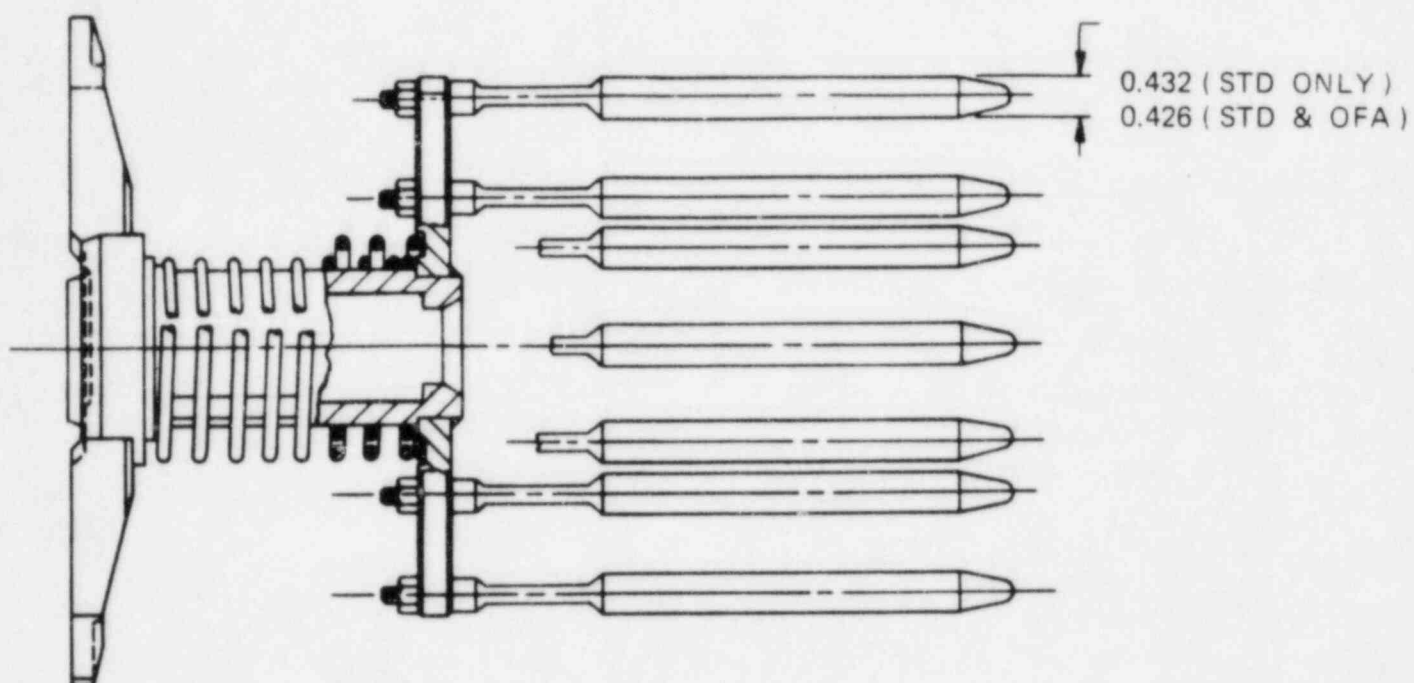
SECONDARY SOURCE ASSEMBLY
McGUIRE NUCLEAR STATION

FIGURE 4.2.3-7
1984 UPDATE



NOTE ALL DIMENSIONS ARE IN INCHES



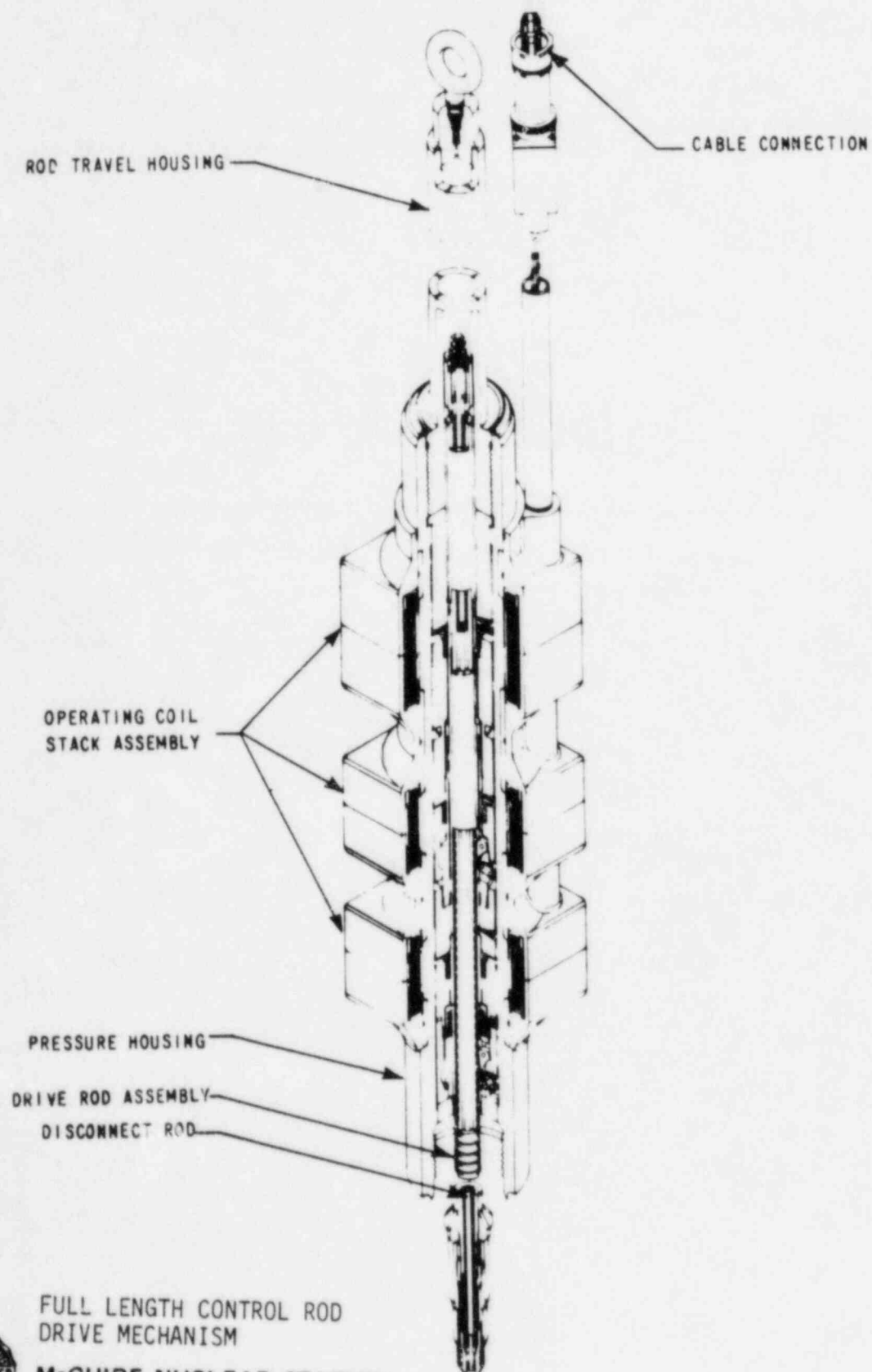


THIMBLE PLUG ASSEMBLY
(CONCEPTUAL)



McGUIRE NUCLEAR STATION

FIGURE 4.2.3-8
1984 UPDATE

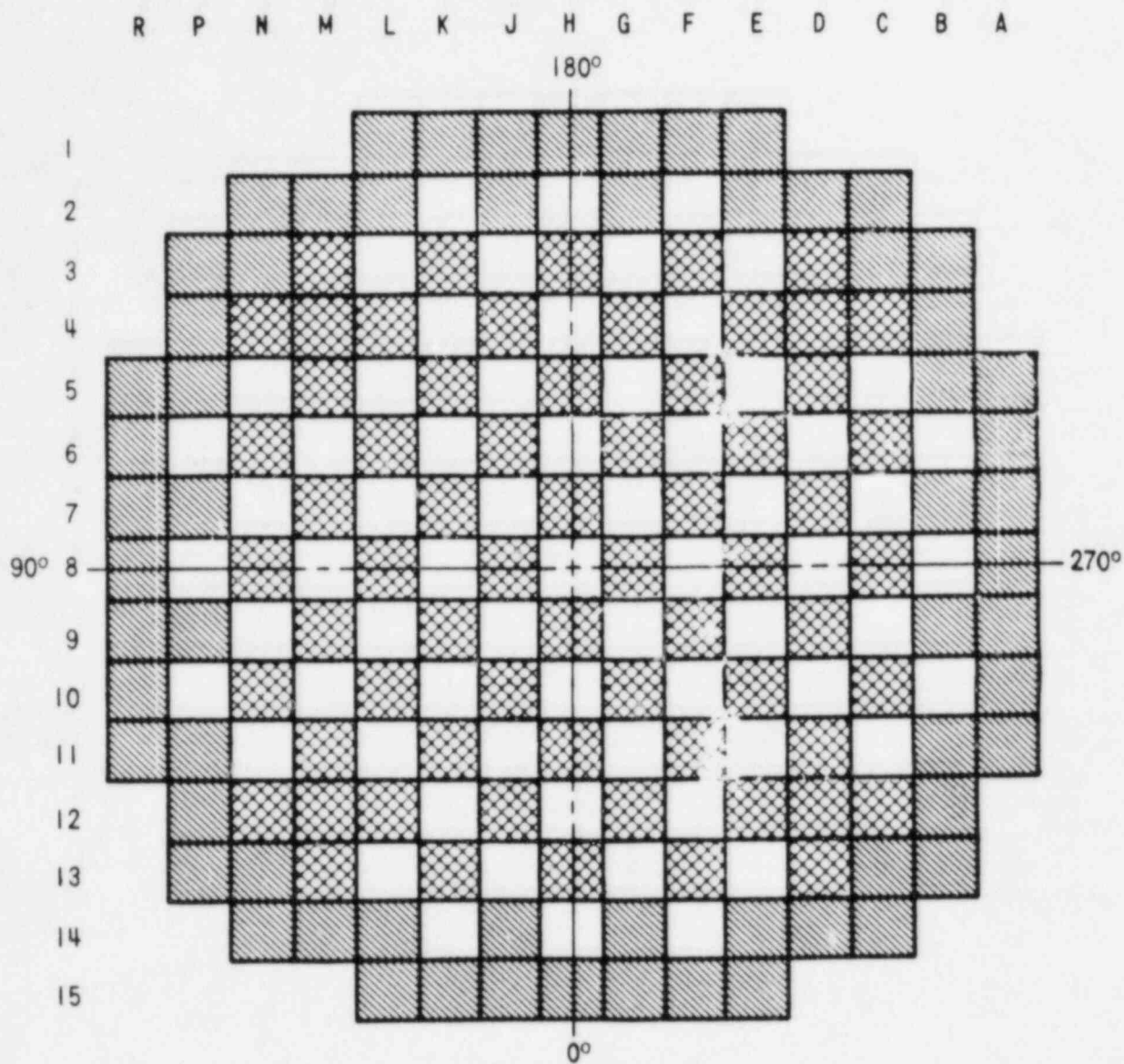





FULL LENGTH CONTROL ROD
DRIVE MECHANISM

McGUIRE NUCLEAR STATION

Figure 4.2.3-9

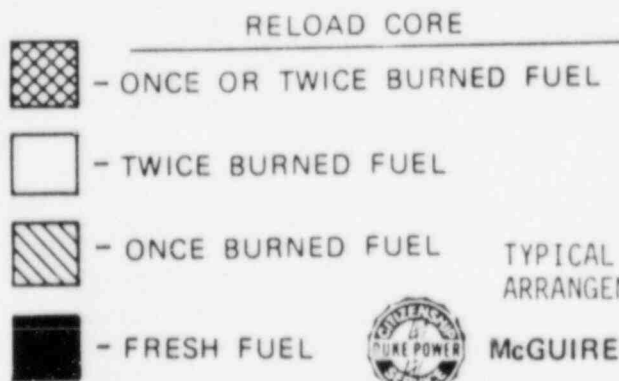
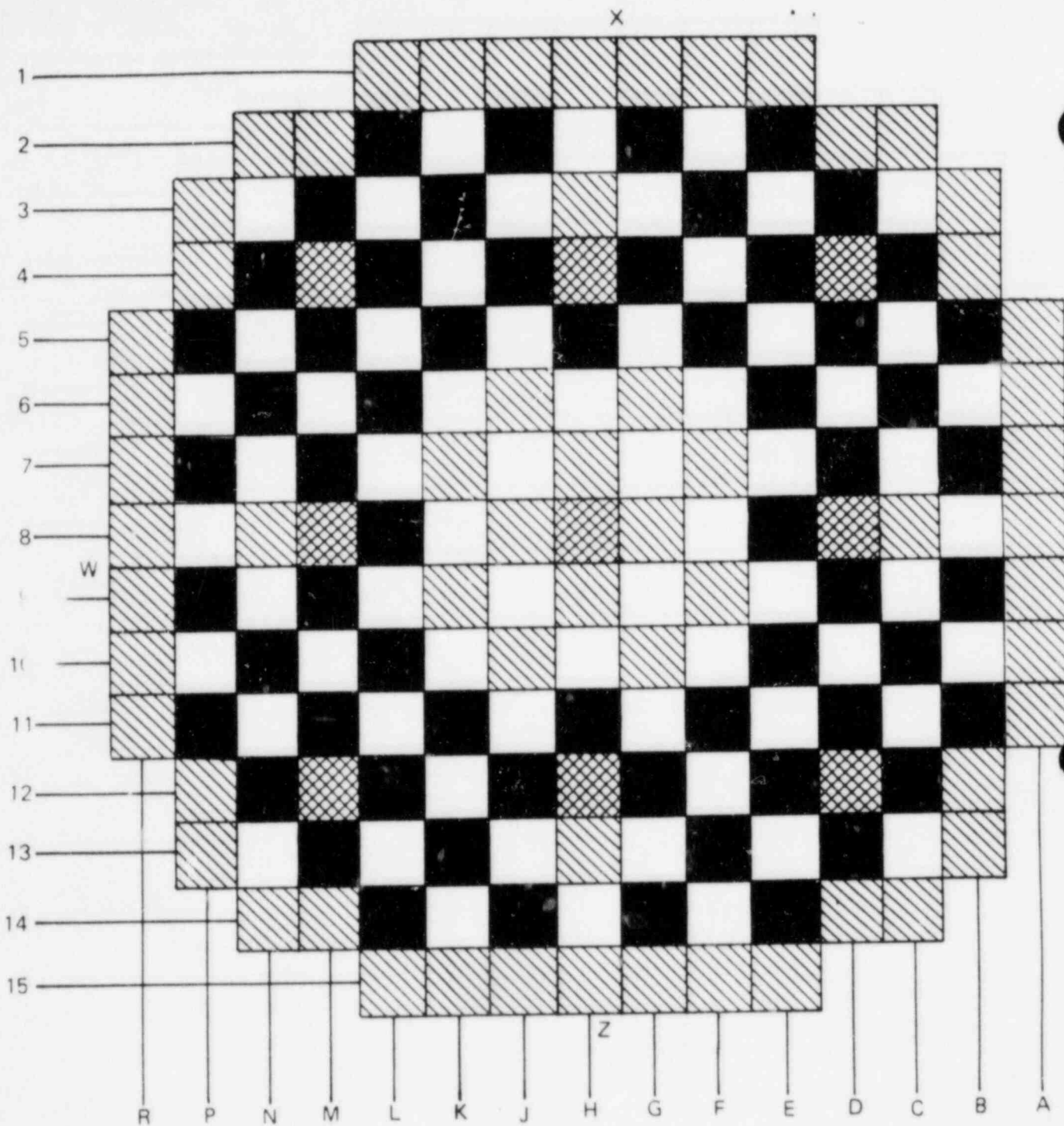




	FIRST CORE	RELOAD CORE
	REGION 1	ONCE OR TWICE BURNED FUEL
	REGION 2	ONCE OR TWICE BURNED FUEL
	REGION 3	FRESH FUEL



FUEL LOADING ARRANGEMENT
McGUIRE NUCLEAR STATION
Figure 4.3.2-1



TYPICAL FUEL LOADING
ARRANGEMENT



McGUIRE NUCLEAR STATION

FIGURE 4.3.2-1A
NEW FIGURE
1984 UPDATE

Table 6.3.2-2

Normal Operating Status of Emergency Core Cooling
System Components for Core Cooling

Number of Safety Injection Pumps Operable	2
Number of Charging Pumps Operable	2
Number of Residual Heat Removal Pumps Operable	2
Number of Residual Heat Exchangers Operable	2
Refueling Water Storage Tank Volume, Gal., minimum	372,100
Boron Concentration in Upper Head Injection Surge Tank, minimum ppm	1,900
Boron Concentration in Refueling Water Storage Tanks, minimum ppm	1,900
Boron Concentration in Cold Leg Accumulator, minimum ppm	1,900
Boron Concentration in Upper Head Injection Accumulator, minimum ppm	1,900
Number of Accumulators	6
Minimum Cold Leg Accumulator Pressure, psig	400
Minimum Upper Head Accumulator Pressure, psig	1,206
Minimum Cold Leg Accumulator Water Volume, ft ³	925
Minimum Upper Head Accumulator Water Volume, ft ³	1,850
System Valves, Interlocks, and Piping Required for the Above Components which are Operable	All

Sequence of Operations: Injection to Cold Leg Recirculation

The following steps would be taken when terminating the injection mode and starting the cold leg recirculation mode: (RWST Lo Level Alarm)

1. Verify adequate containment sump level to sustain cold leg recirculation.
2. Verify component cooling water flow to the RHR heat exchangers.
3. Reset Safety Injection.
4. Reset the diesel generator load sequencers.
5. Verify that the containment sump valves to the residual heat removal pumps NI184B and (NI185A) are open.

NOTE: As these valves move off their seats, limit switches will close ND4B and ND19A.

6. Realign power to the common valve between the RWST and the residual heat removal pumps (FW27A).
7. Close the common valve from the RWST to both RHR pumps (FW27A).
8. Close safety injection pump miniflow isolation valves NI115B and NI144B.
9. Realign power to valve NI147A.
10. Close safety injection pump miniflow isolation valve NI147A.
11. Close valves ND30A and ND15B in the crossover line between the two low head headers at discharge side of RHR heat exchanger.
12. Open the two parallel valves in the crossover line between the suction of the safety injection pumps and the suction of the centrifugal charging pumps (NI332A and NI333B). Also verify that the series valve in the crossover line (NI334) is open or, if necessary, open it.
13. Open the valve in the line from the RHR pumps discharge to the safety injection pump and centrifugal charging pump suction (NI136B and ND58A).

NOTE: The valve in the line from the B RHR pump discharge to the safety injection pump suction (NI136B) is interlocked such that it cannot be opened unless either the two parallel safety injection pump miniflow isolation valves (NI144B or NI115B) are shut or the common safety injection pump miniflow isolation valve (NI147A) is shut and the containment sump valve to the B RHR pump (NI184B) is open and either of the isolation valves between the RCS and the RHR pumps suction (ND2A or ND1B) is shut.