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February 9, 1990

Re: Indian Point Unit No. 2
Docket No. 50-247

Document Control Desk
US Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

SUBJECT: Indian Point Unit No. 2, Spent Fuel Pool Storage Capacity Increase
(TAC 72962)

REFERENCES:

1. Letter to NRC from Mr. Stephen B. Bram (Con Edison), dated January 19, 1990 entitled "Indian Point Unit No. 2 Spent Fuel Pool Storage Capacity Increase"
2. Letter to NRC from Mr. Stephen B. Bram (Con Edison), dated January 24, 1990 entitled "Indian Point Unit No. 2 Spent Fuel Pool Storage Capacity Increase"

References 1 and 2 contained figures which have recently been revised. Attachment I to this letter contains the revised figures and a description of the changes including the changes to References 1 and 2.

Should you or your staff have any questions regarding this matter, please contact Mr. Charles W. Jackson, Manager, Nuclear Safety and Licensing.

Very truly yours,

Michael L. Muel

Attachment

9003050149 900209
PDR ADOCK 05000247
PDC

*Pool
1/11*

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ATTACHMENT I

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NO. 2
DOCKET NO. 50-247
FEBRUARY, 1990

The rack installation and removal sequence and proposed fuel shuffle steps for the Indian Point 2 rerack have been revised as part of the current review and finalization of the installation procedures. These steps have been revised to facilitate a more efficient reracking process. The steps for the rerack were provided in Figures 1-6 in the response to question IV.2 in Reference 1 and the response to question 2 in Reference 2. Figures 1-8 hereto contains the revised steps and replaces Figures 1-6 as provided earlier. Figures 1-8 provide proposed fuel shuffles which meet the objective of maintaining a minimum distance of four feet between stored fuel and a rack being lifted when the rack is more than six inches above the pool floor or obstructions located on the pool floor. The dimension "x" in Figures 2-8 shows the distance between the stored fuel and a rack at those points where it is permissible for the rack to be more than six inches above the pool floor or an obstruction.

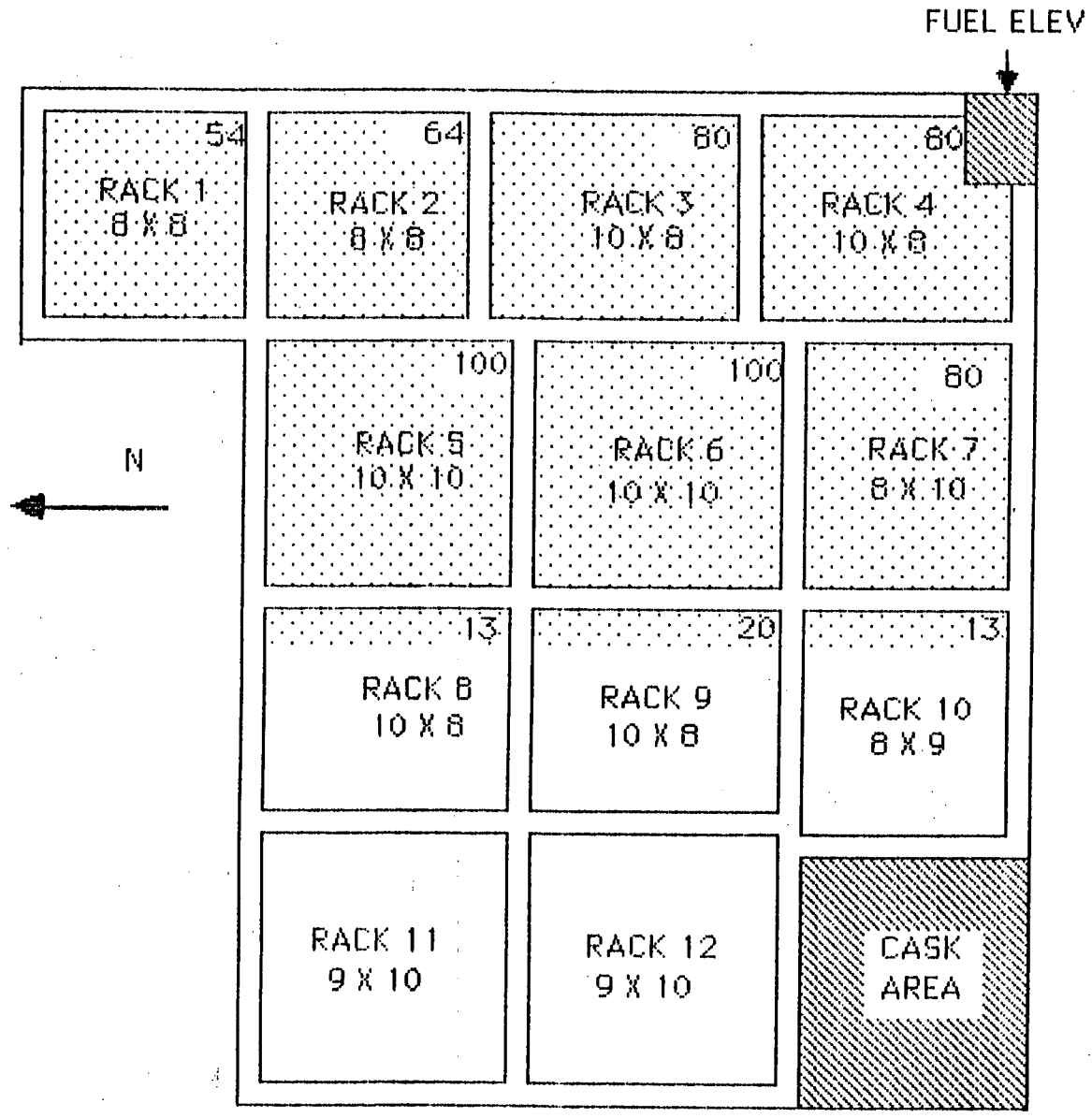


FIGURE 1

INDIAN POINT UNIT II

INSTALLATION AND REMOVAL
SEQUENCE AND PROPOSED FUEL
SHUFFLE STEPS:

Shuffle fuel assemblies
to obtain configuration
shown

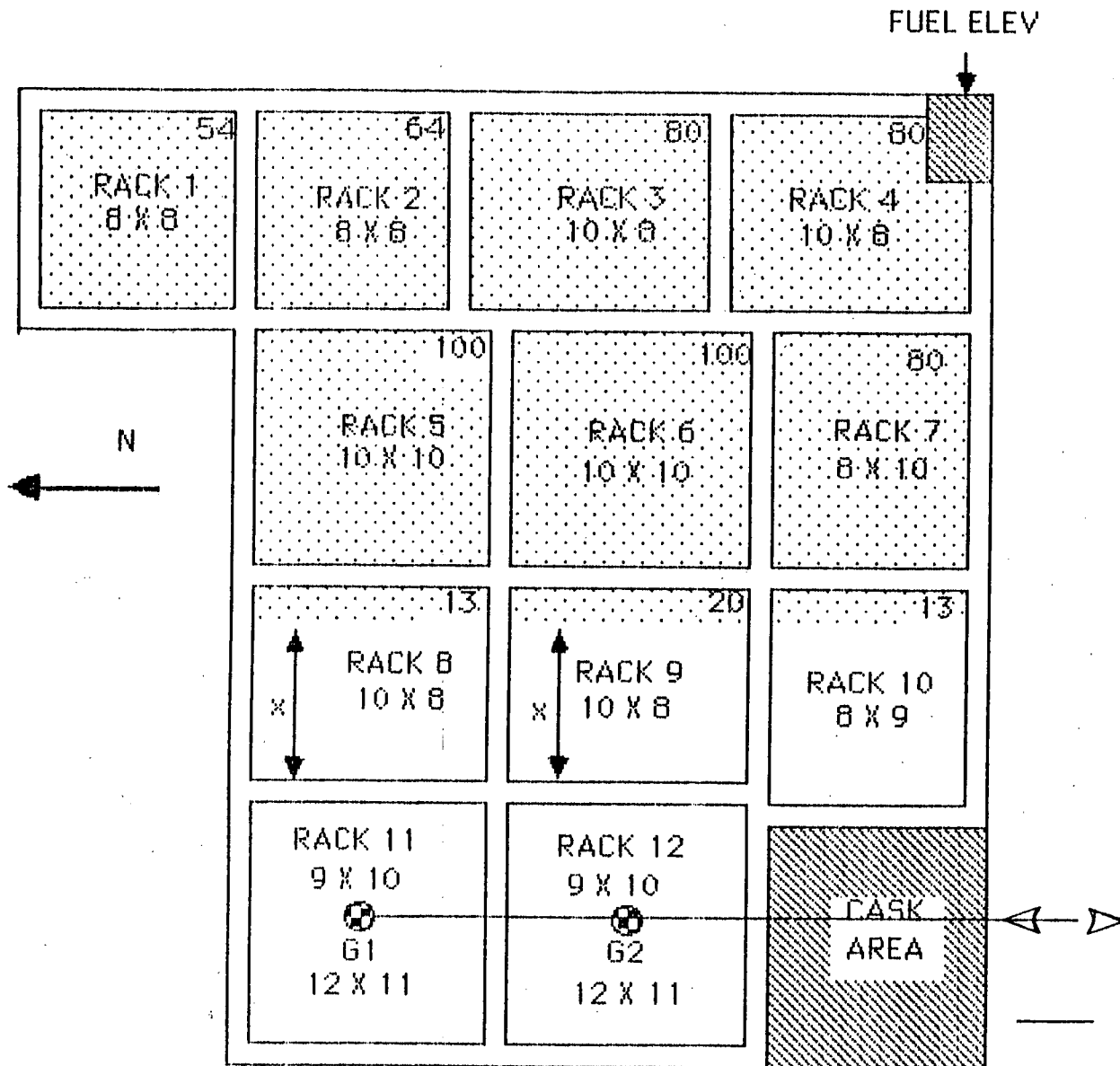


FIGURE 2

INDIAN POINT UNIT II

INSTALLATION AND REMOVAL
SEQUENCE AND PROPOSED FUEL
SHUFFLE STEPS:

Remove racks 11 and 12

Install racks G1 and G2

$x > 4'$

⊙ Approximate point where
the racks are lifted out of
the water

— rack movement above water

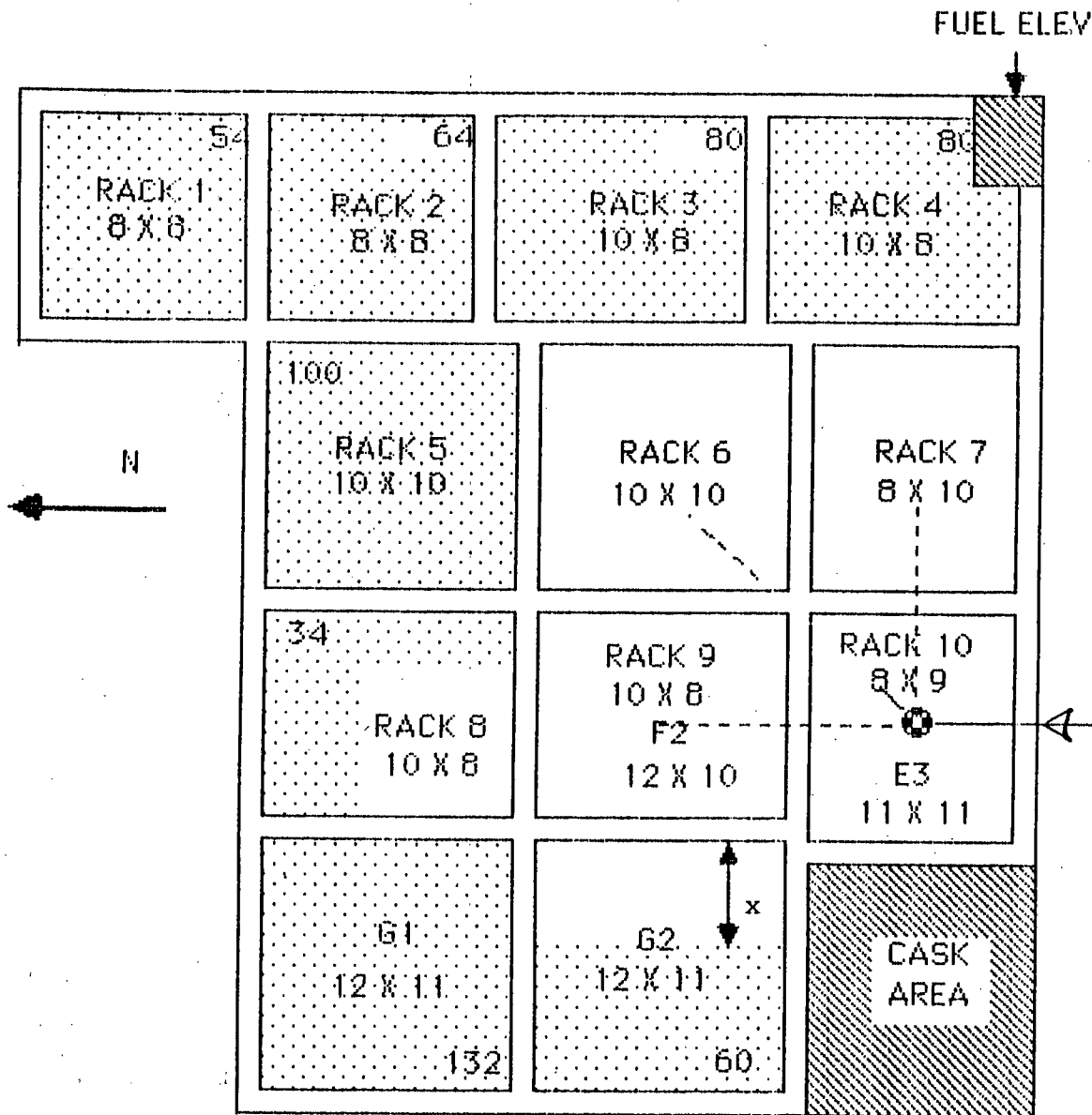


FIGURE 3

INDIAN POINT UNIT II

INSTALLATION AND REMOVAL SEQUENCE AND PROPOSED FUEL SHUFFLE STEPS:

Shuffle fuel to obtain the configuration shown.

Rack #	Added (+)	Removed (-)
10		-13
9		-20
7		-80
6		-100
G1	+132	
G2	+60	
8	+21	

Remove racks 10, 7, 9, 6
Install racks F2 and E3

⊗ Approximate point where racks lifted out of the water or lowered into the water.

----- rack movement under water 6" above the pool floor or pool floor obstructions.

_____ rack movement above water

x > 4'

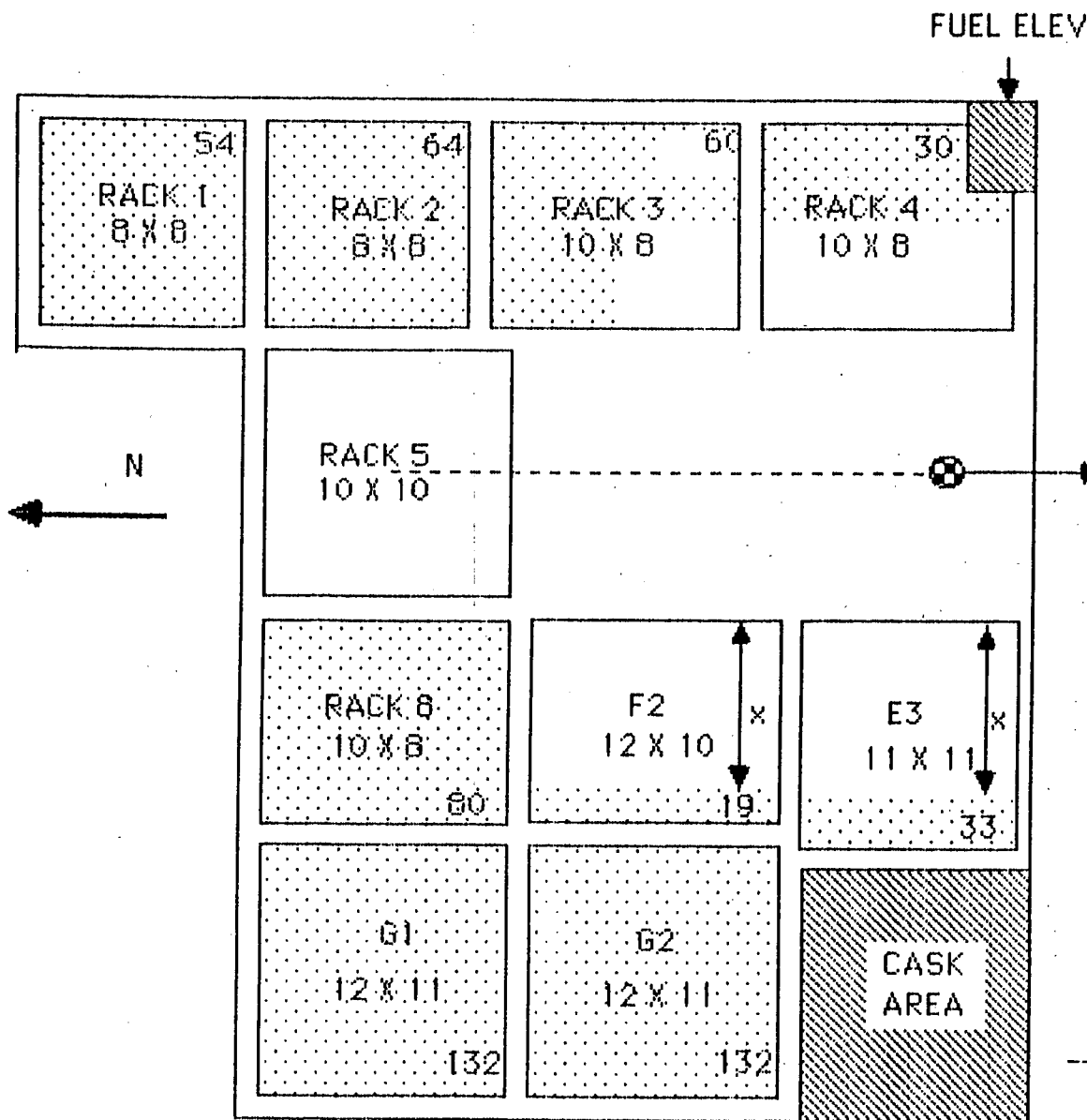


FIGURE 4

INDIAN POINT UNIT II

INSTALLATION AND REMOVAL SEQUENCE AND PROPOSED FUEL SHUFFLE STEPS:

Shuffle fuel assemblies to obtain the configuration shown.

Rack #	Added (+) Removed (-)
4	-50
3	-20
8	+46
G2	+72
5	-100
F2	+19
E3	+33

Remove rack 5
x > 4'

⊕ Approximate point where rack is lifted out of the water

----- rack movement under water 6" above the pool floor or pool floor obstructions

_____ rack movement above water

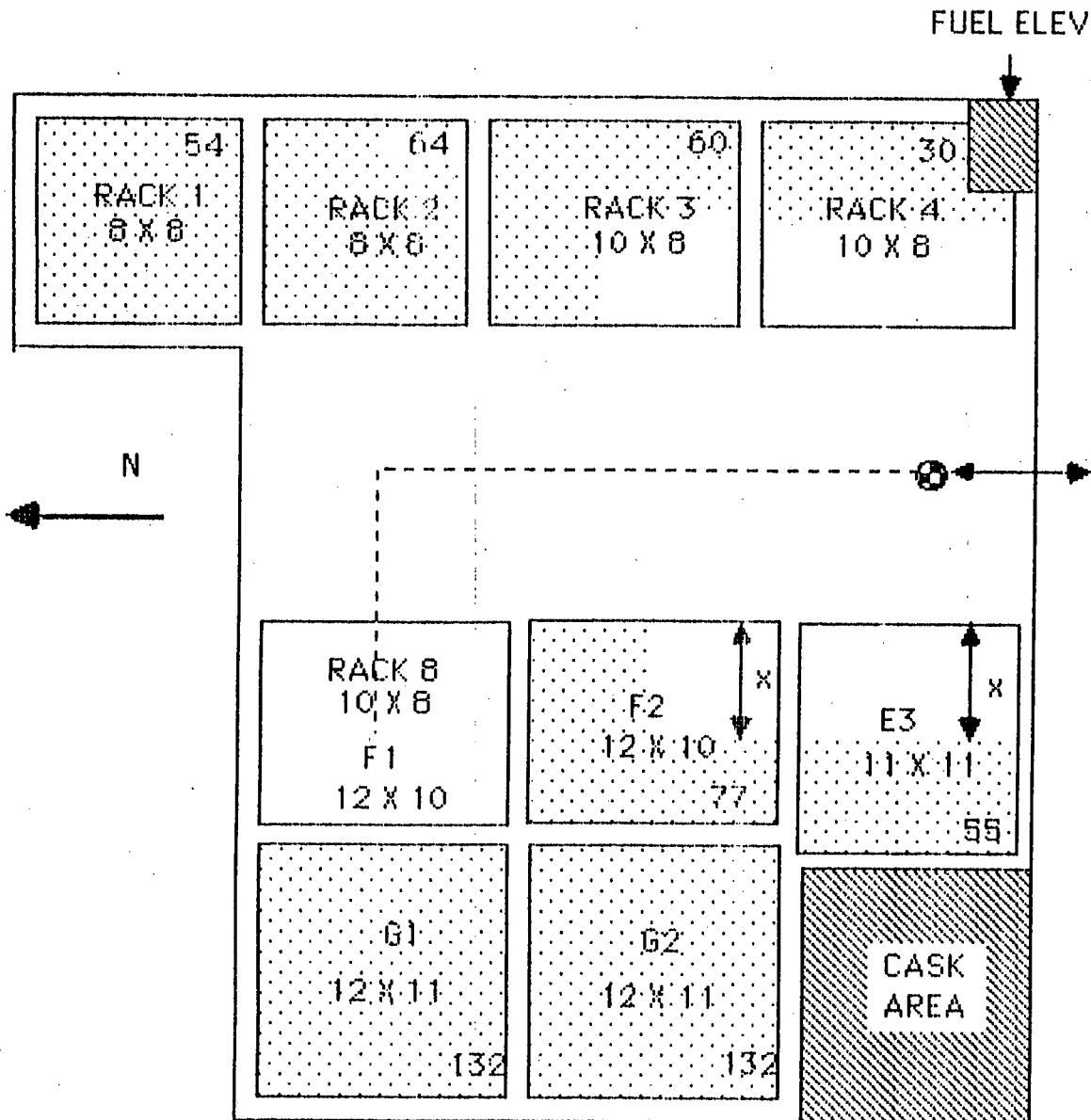


FIGURE 5

INDIAN POINT UNIT II

INSTALLATION AND REMOVAL
SEQUENCE AND PROPOSED FUEL
SHUFFLE STEPS:

Shuffle fuel assemblies to obtain
the configuration shown.

Rack #	Added (+) Removed (-)
8	-80
E3	+22
F2	+58

Remove rack 8

Install rack F1

x > 4'

⊕ Approximate point where rack
is lifted out of the water
or lowered into the water

----- rack movement under water 6"
above pool floor or pool floor
obstructions

_____ rack movement above water

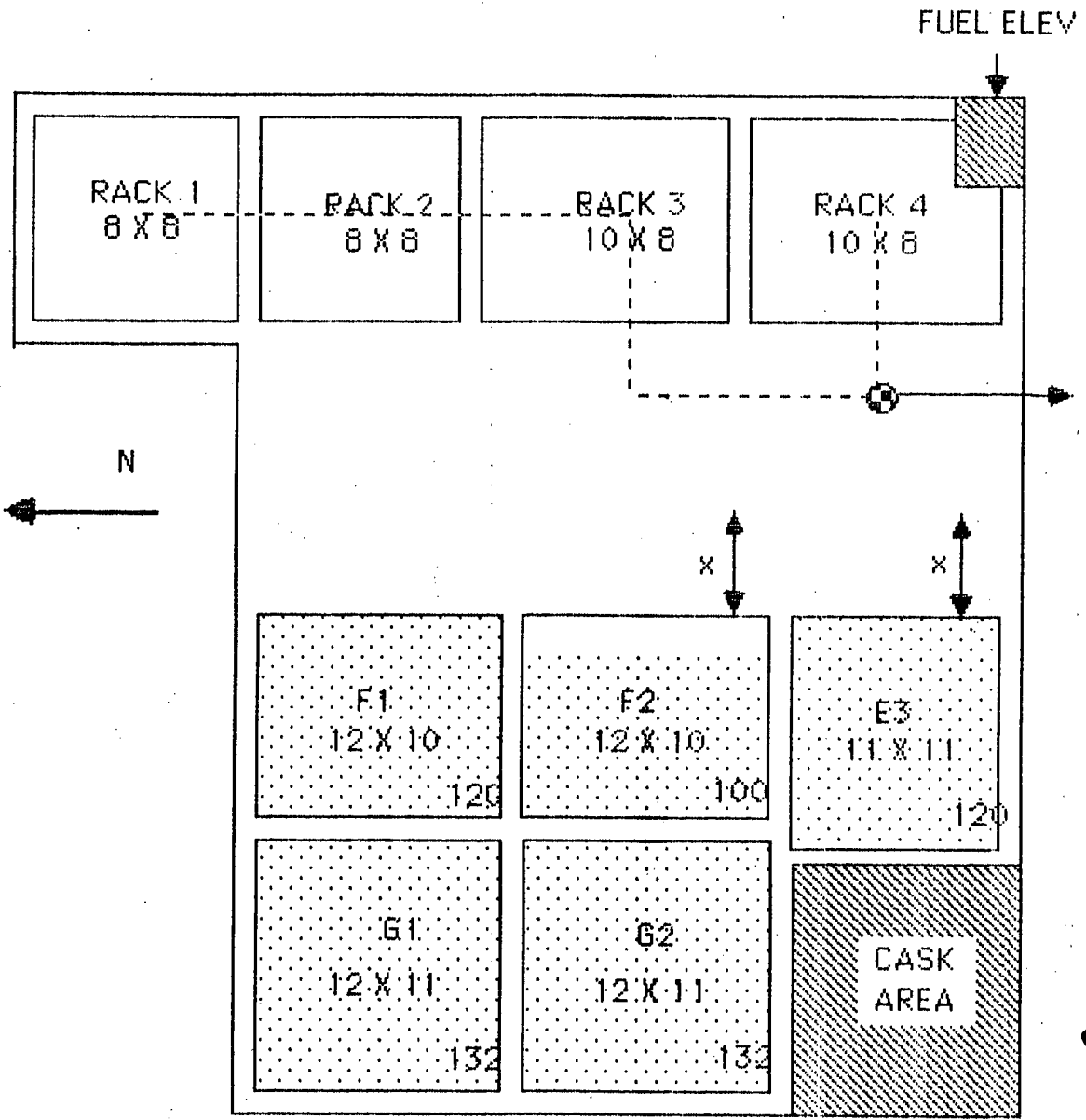


FIGURE 6
INDIAN POINT UNIT II
INSTALLATION AND REMOVAL
SEQUENCE AND PROPOSED FUEL
SHUFFLE STEPS:

Shuffle fuel assemblies to obtain the configuration shown.

Rack #	Added (+) Removed (-)
1	-54
2	-64
4	-30
3	-60
F1	+120
F2	+23
E3	+65

Remove racks 4, 3, 2, and 1

$x > 4'$

⊗ Approximate point where racks are lifted out of the pool

----- rack movement under water 6" above the pool floor or pool floor obstructions.

_____ rack movement above water

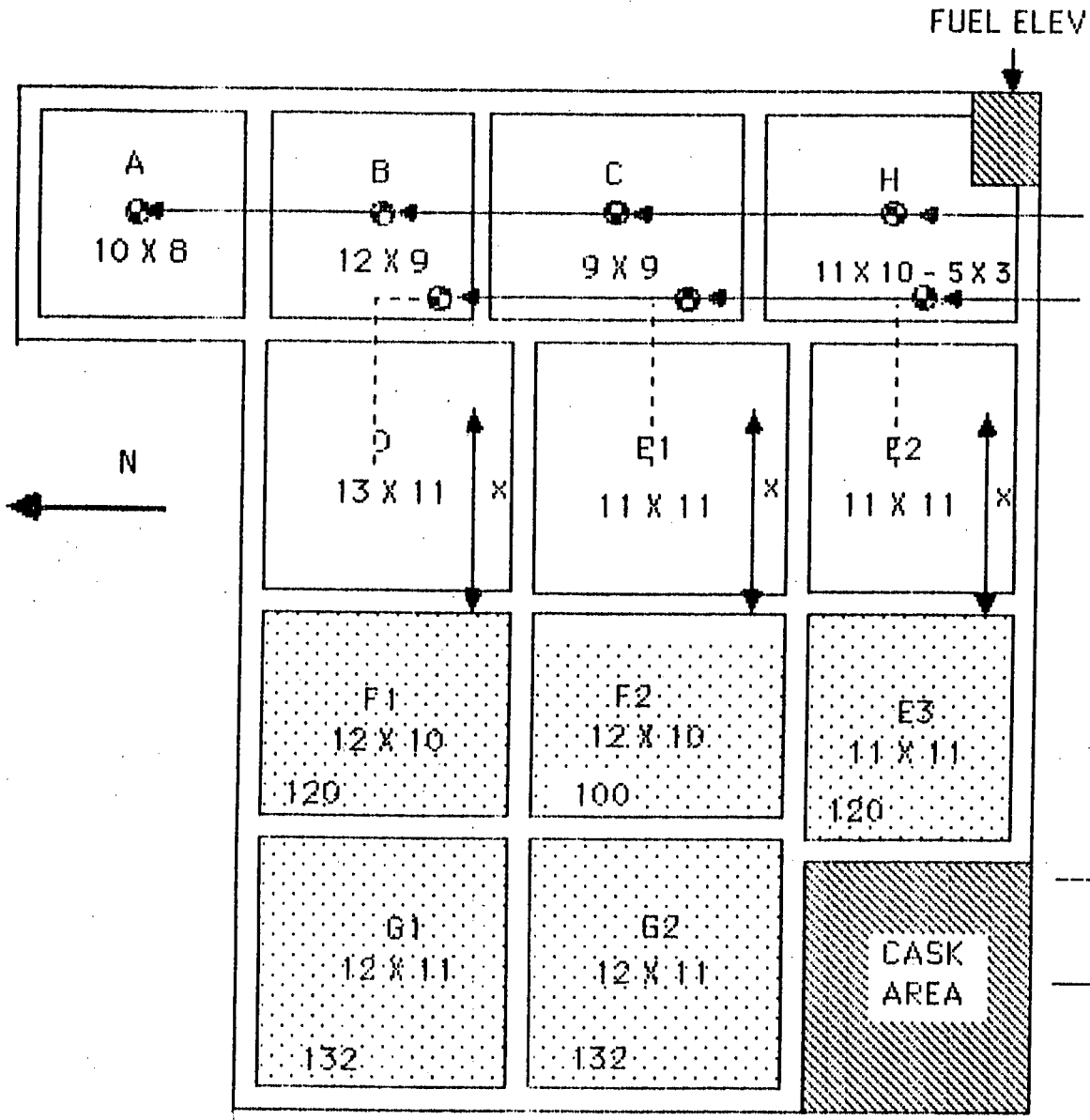


FIGURE 7

INDIAN POINT UNIT II

INSTALLATION AND REMOVAL SEQUENCE AND PROPOSED RACK SHUFFLE STEPS:

Install the remaining racks in the following sequence:

A, D, E1, E2, B, C, and H.

$x > 4'$

⊙ Approximate point where racks are lowered into the water

----- rack movement under water 6" above pool floor or pool floor obstruction

_____ rack movement above water