



Jersey Central Power & Light Company

MADISON AVENUE AT PUNCH BOWL ROAD • MORRISTOWN, N. J. 07960 • 539-6111

April 26, 1973

Mr. James P. O'Reilly, Director
Directorate of Regulatory Operations, Region 1
United States Atomic Energy Commission
970 Broad Street
Newark, New Jersey 07102

Dear Mr. O'Reilly:

Enclosed is one copy of "Procedure #216, Oyster Creek Channel Sample Shipment" which we propose to implement on May 7, 1973 in the handling of shipment of fuel channel sections to General Electric Company. In accordance with our understanding with your Mr. Floyd Cantrell, this copy is intended for his review.

Should there be any questions, please refer them to either Mr. Carroll or Mr. Sullivan of the Oyster Creek staff.

We would appreciate receiving any comments you feel are appropriate prior to our May 7 date.

Very truly yours,



Donald A. Ross
Manager, Nuclear Generating Stations

DAR:cs
Enclosure

cc: Messrs. J. T. Carroll
E. J. Gowney

B1256

SECTION 216

OYSTER CREEK CHANNEL SAMPLE SHIPMENT

<u>Rev. No.</u>	<u>Section (a)</u>	<u>Approved</u>	<u>Date</u>
*0	ALL	<i>J. T. Carroll</i>	4-20-73

JERSEY CENTRAL POWER & LIGHT COMPANY
NEW JERSEY POWER & LIGHT COMPANY

MEMORANDUM April 24, 1973

SUBJECT: Oyster Creek Channel Sample Shipment
TO: D. A. Ross

The enclosed Procedure #216, Oyster Creek Channel Sample Shipment, was approved by the FORC on April 20, 1973. Please forward this procedure to AEC Directorate of Regulatory Operations, Region 1 for their review prior to implementing this procedure. Please note that the cask is currently scheduled for loading on May 7, 1973.

E. J. Grosney
E. J. Grosney
FORC Secretary

Approved: *J. T. Carroll*
J. T. Carroll, Jr.
FORC Chairman

EJG:JS

cc: J. T. Carroll, Jr.

216 Oyster Creek Channel Sample Shipment

216.1 Introduction

Irradiated fuel channel segments (4) that were previously cut from whole channels will be loaded into U. S. Model 200 Casks for shipment to Vallesitas Nuclear Center for analysis.

216.2 Precautions

To prevent the lifting of the irradiated channel segments out of water the rope that will be used to transfer the channels will be marked such that keeping the mark under water will assure the channel is at least 6 feet below the surface of the water.

216.3 Radiation Protection for Channel Transfer

1. Clothing will be provided to adequately protect personnel as required by the R.W.P.
2. A survey meter will be available for surveying the transfer.

216.4 Procedure for Disassembly and Placement of Cask on the Operating Floor

1. Place cask in railroad airlock.
2. Remove four 2 inch carbon steel bolts from base of shield.
3. Lift shield cover off cask using the tie down lugs located on the side of the shield cover. PRECAUTION: During disassembly monitor cask for any unexpected radiation levels and/or contamination.
4. With the 5 ton hook, lift cask off shield base using the lugs on each side of cask. Do Not use eye on top.

216.4 (continued)

5. Lift cask to elevation 119 feet and place on the operating floor at a location such that the cask will not interfere with refueling operations. The floor in this area will be covered with polyethylene sheeting.
6. Replace shield cover on shield base.
7. Replace the four 2 inch carbon steel bolts.
8. Shields may either be left in airlock or removed and stored in a convenient location.

216.5 Procedure for Placement of Cask in the Equipment Storage Pool

1. Remove bolts from cask lid and place in a polyethylene bag.
2. While monitoring the cask remove the lid and place in polyethylene bag.
3. If the cask inside is dry, remove the drain plug and place it in the polyethylene bag.
4. Store the parts in the polyethylene bag for further use.
5. Lower the cask into the pool at a location designated in Figure 216-1 (prior to flooding pool).
6. Release hook and remove slings from cask.

216.6 Procedure for Transferring Channel Segments

After the reactor cavity and the equipment storage pool are flooded with water and the gates between the fuel pool and reactor cavity are opened. Assume path of travel is free of any obstruction.

216.6 (continued)

1. Grapple one channel segment with the channel holding tool.
See figure 216-11.
2. Lower a weighted rope through channel segment and retrieve the weighted end with a "J" hook and lift the weighted end out of the pool.
3. Secure ends of rope and form hand loop. See figure 216-111.
4. Release channel holding tool.
5. Transfer the channel segment by hand to the equipment storage pool while keeping the segment at least 6 feet below the surface of the water. Monitor the radiation levels while performing this step. Movements will be coordinated with refueling operations.
NOTE: While going over the reactor cavity keep the channel segment over the grating and as close to the grating as practical.
6. Lower the channel segment into the cask, remove clip from eye to release one end of the rope and pull the rope through with other end.
7. Position gaskets on cask lid and replace lid on cask with the 5 ton hook. ~~and~~
8. Release hook and leave sling on lid.

216.7 Procedure for Removing Cask from Pool

After the equipment storage pool is drained of water;

1. Monitor cask as level in equipment pool is lowered.
2. Hose cask down with demineralized water while in the cavity.
3. Raise cask above pool floor and allow it to drain, monitor for radiation levels while raising cask.

216.7 (continued)

4. Wipe cask dry with rags while in pool.
5. Move cask to Decontamination Area on 119 Feet.
6. Replace bolts on cask lid.
7. Replace bottom drain plug.
8. Decontaminate cask exterior and survey to assert that the limits that will be set forth from Procedure 908.1.3 are not exceeded.

216.8 Procedure for Cask Reassembly and Shipment

1. Remove four 2 inch carbon steel bolts from protective jacket and lift protective jacket off jacket base.
2. Lower and cask down the equipment hatch and into the protective jacket storage area.
3. Remove labels from cask and protective jacket.
4. Align cask on jacket base so that the protection jacket will position over the cask lifting ears and mate with base bolt holes and secure all bolts.
5. Attach appropriate shipping labels. Procedure 908.2.4.
6. Assure proper shipping papers are prepared. Procedure 908.2.5.
7. Return casks to General Electric Company, Vallejo Nuclear Center, Pleasanton, California.

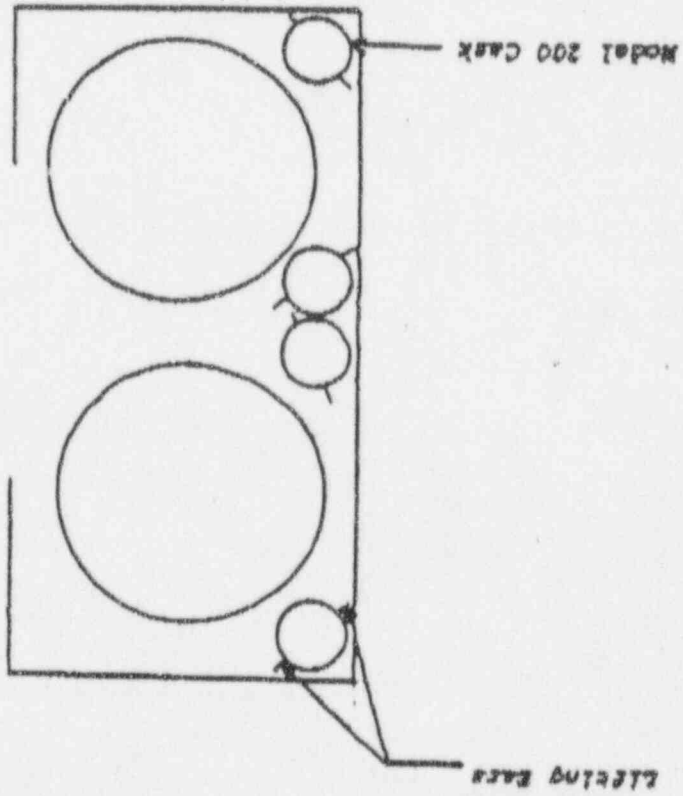
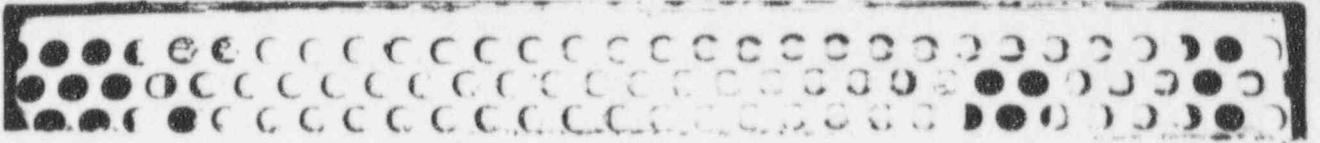


FIGURE 216-1

FIGURE 216-II

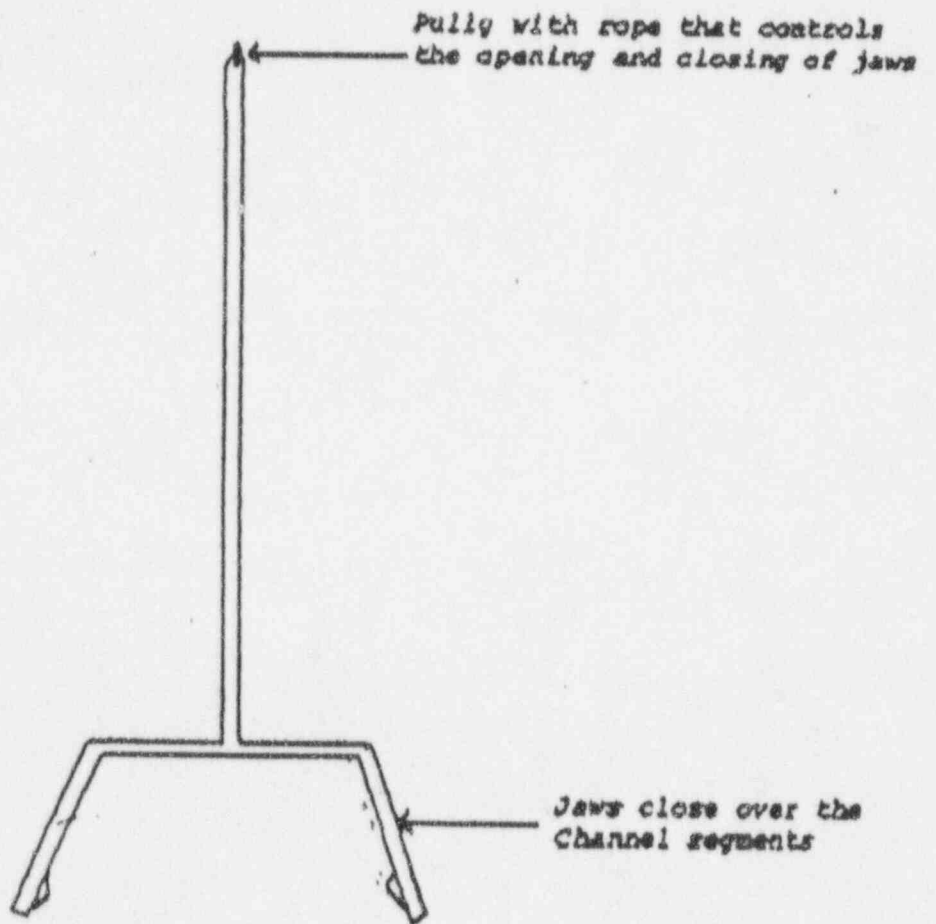
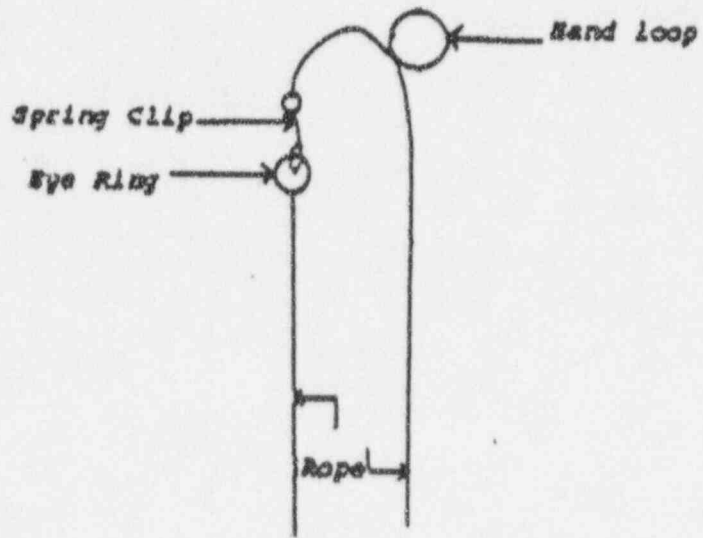
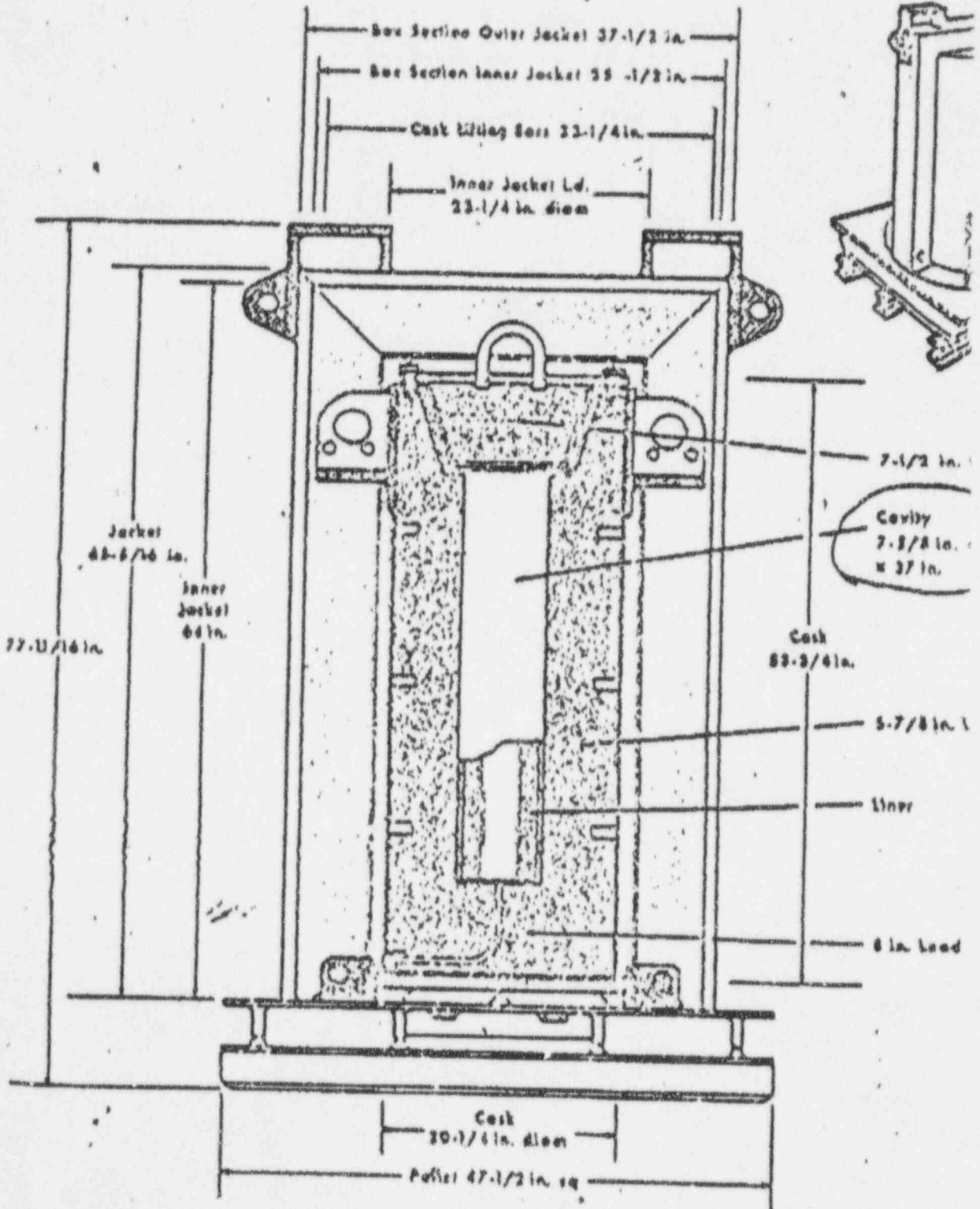


FIGURE 216-III



200 Series
 Assembly Weight 6640 lbs
 Assembly Drawing No. 21E23401
 D.O.T. S.P. No. 5971 (A L.A.E.A. Certified)
 Modes of Transportation
 Vessel, Motor Vehicle and Rail
 Wall Load at 100°F Ambient 640 Watts
 Pulse Load 100/300/300 Grams at
 Missile Class II with Transport Index of 2.3



GENERAL ELECTRIC - MODEL 200 SHIELDED CONTAINER