



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W., SUITE 3100  
ATLANTA, GEORGIA 30303

Report No. 50-238/81-1

Licensee: United States Department of Commerce  
Maritime Commission M-930  
Washington, DC 20230

Facility Name: N. S. Savannah

Docket No. 50-238

License No. NS-1

Inspection at North Charleston, SC

Inspector: L. A. Franklin

7-16-81  
Date Signed

Accompanying Personnel: P. McPhail

Approved by: C. M. Hoxey  
C. M. Hoxey, Acting Section Chief  
Technical Inspection Branch  
Engineering and Technical Inspection Division

7/16/81  
Date Signed

SUMMARY

Inspection on June 18-19, 1981

Areas Inspected

This special announced inspection was confirmatory in nature. The inspection involved 14 inspector-hours onboard, primarily performing radiation surveys in areas that will ultimately be open for public tours.

Within the scope of this inspection, no violations or deviations were disclosed.

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

\*C. Clausen, Representative, Maritime Commission

#### Other Organizations

R. Marsh, Chief Contracting Officer, North Charleston Army Depot

\*T. Hathcock, Representative, Global Associates

\*J. Pitchell, Representative, Global Associates

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on June 19, 1981, with those persons indicated in paragraph 1 above.

### 3. Survey Results

A proposed license amendment, which will add the South Carolina Patriots Point Development Authority to the license, calls for all areas accessible to the public and employees to have radiation levels of less than 5  $\mu\text{R}/\text{Hr}$ , above background, at 1 meter from any surface. This inspection determined that certain areas, presently accessible, exceed this level. The inspectors stated that a followup survey should be performed after work in progress is completed and actual tour routes, etc., are clearly defined.

Background readings were established at two points; the stern and the bow of the ship. Both of these points showed a 3.0  $\mu\text{R}/\text{Hr}$  reading. In addition, a background reading was taken on the bridge and showed 3.7  $\mu\text{R}/\text{Hr}$ . A pressurized ion chamber was used for background readings. Eberline micro "R" meters were used for all survey points and showed a background, on the bow and stern of 2.5  $\mu\text{R}/\text{Hr}$ .

#### "A" Deck

(Micro R/Hr  
Includes Bkg)

At Fire Station #14, Port Passageway . . . . .	2.5
Center of Main Lobby . . . . .	2.5
At Fire Station #16, Port Passageway . . . . .	2.0
At Fire Station #17, Starboard Passageway . . . . .	2.0
At Fire Station #15, Starboard Passageway . . . . .	2.0
Areas Outside Doctor's Office and Health Physics Lab. . . . .	2.5

## "B" Deck

At Fire Station #20, Port Passageway. . . . .	1.5
At Fire Station #22, Port Passageway. . . . .	2.0
Passageway outside Steward's Mess & Lounge, Port Side . . .	5.0
Center of Main Dining Room. . . . .	2.0
Center of Conference Room, Aft. . . . .	2.0
At Fire Station #21, Starboard Side . . . . .	1.5
Passageway Outside Reactor Space Water Tight Door, Closed .	2.0
Inside Main Galley. . . . .	2.0
Inside Main Scullery, Galley Area . . . . .	2.0
Officer & Mess, Port Side . . . . .	2.0
Fan Room, Starboard Side. . . . .	4.0

## "C" Deck

Visitor's Gallery, Port Side. . . . .	2.0
Visitor's Gallery, Mid-Ship . . . . .	2.0
Visitor's Gallery, Starboard Side . . . . .	2.0
Outside Forward Control Door, Port Side (Door Closed) . . .	2.0
Zone 9. . . . .	55.0

## "D" Deck

At Reactor Control Center . . . . .	1.0
Outside of Hot Chem Lab Door. . . . .	2.0
Engine Room Toilet, Port Side . . . . .	2.5
Upper Level, Engine Room, Port Side . . . . .	1.0
Upper Level Engine Room, Starboard Side. . . . .	1.5
Machine shop, Aft of Control Center . . . . .	1.0
Fire Station No. 31, Starboard Side . . . . .	95.0

## ENGINE ROOM - LOWER LEVEL

Outside Port Pump Hatch, Closed . . . . .	9.0
Outside Starboard Pump Room Hatch, Closed . . . . .	10.0
Lower Level, Engine Room, Port Side . . . . .	2.0
Lower Level, Engine Room, Starboard Side. . . . .	1.0

## 14' - 0" FLAT

Outside Port Stabilizer Room Hatch, Closed. . . . .	12.0
Outside Starboard Stabilizer Room Hatch, Closed . . . . .	2.0

## CARGO HOLD NO. 4

At Aft Bulkhead, "B" Deck Level (Next to Forward Control) .	6.0
At Aft Bulkhead, "C" Deck Level (Next to Forward Control) .	30.0
At Aft Bulkhead, "D" Deck Level . . . . .	110.0

## NAVIGATION BRIDGE DECK

In Pilot House At Helm. . . . .	.1.0
Bridge Wing, Port Side. . . . .	.1.0
Bridge Wing, Starboard Side . . . . .	.1.0
At Fire Station #1, Near Chart Room . . . . .	.1.5
In Fan Room, Port Side, Emergency Generator Room. . . . .	.1.0

## BOAT DECK

Chief Engineer's State Room, Port Side. . . . .	.2.0
Captain's State Room, Starboard Side. . . . .	.2.0
At Fire Station #2, Port Side Passageway. . . . .	.2.0
In Officer's Lounge, Aft. . . . .	.1.5
At Fire Station #3, Starboard Weather Deck. . . . .	.1.0

## PROMENADE DECK

At Aux. Reactor Hatch and Ducts, Forward of Reactor Hatch .1.0	.1.0
Port Side of Main Reactor Hatch. . . . .	.1.0
At Fire Station #5 near Starboard Side of Reactor Hatch . . . . .	.1.0
At Fire Station #4, Port Side Prom Deck . . . . .	.2.0
Center of Main Lounge . . . . .	.2.0
Center of Veranda . . . . .	.2.0
At Fire Station #7, Starboard Side Prom Deck. . . . .	.2.5
In Pantry, Port Side of Promenade Deck. . . . .	.2.0
Weather Decks Forward . . . . .	.1.0
Weather Decks Aft . . . . .	.1.0
Flying Bridge and Top of Housing. . . . .	.1.0