

*Duplicate copy on  
microfiche*

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

July 15, 1980

Mr. Michael S. Givel  
218 N.W. 12th Terrace  
Gainesville, FL 32601

IN RESPONSE REFER  
TO FOIA-80-263

Dear Mr. Givel:

This is in partial response to your letter of June 23, 1980, in which you requested (based on your initial request dated May 15, 1980), three categories of documents on Crystal River 3.

With respect to Item 2 of your request concerning the radiation exposure to personnel at Crystal River since 1977, I am enclosing a copy of NUREG-0594, Occupational Radiation Exposure at Commercial Nuclear Power Reactors, 1978. The report presents specific information regarding Crystal River on pages 32, 47, and 63. Also enclosed is a draft chart showing exposure in 1978 by work and job function for Crystal River. (The NRC does not maintain information by specific job titles or positions.)

In addition, with respect to Item 11, you may find the information you seek regarding any improper environmental samples in Florida Power Corporation's Semi-Annual Reports entitled "Effluent and Waste Disposal." These reports, along with other categories of annual and semi-annual reports, are filed in The Applicant Correspondence File/Folder and in the Environmental File/Folder under Docket Number 50-302. They are available for public inspection and copying at the Crystal River Public Library, 668 N.W. First Avenue, Crystal River, Florida 32639. You may contact the librarian Mrs. Bonsall on (904-795-3716).

A search is currently being made for documents requested under Item 12. Should any documents be identified as subject to this category, we will let you know.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. M. Felton", written over a horizontal line.

J. M. Felton, Director  
Division of Rules and Records  
Office of Administration

Enclosures: As stated

8007180098

Michael Givel  
218 N.W. 12th Terrace  
Gainesville, Florida  
32601

Director  
Office of Administration  
N.R.C.  
Washington, D.C.  
20555

FREEDOM OF INFORMATION  
ACT REQUEST

FOIA-80-263  
REC'D 5-15-80

Dear Sir or Madam:

Pursuant to 5 United States Codes, Section 552, ( The Freedom of Information Act), I am formally requesting the following information.

1. Any environmental and radioactive violations as a result of either worker exposure or of contamination of the immediate countryside broken down to specific personnel and specific incidents where countryside was contaminated at the Barnwell, South Carolina reprocessing plant.
2. Specific names, positions, dates, and type of radiation exposure of all personnel who have worked at Crystal River 3 Nuclear Power Plant since the plant went on line in 1977.
3. A list of all security violations and a list of all security incidents such as threats against facility or people who work there, actual damage to person or property at the facility or unauthorized entry, at Crystal River 3 since it went online.
4. An economic analysis of capital and operating costs including cost of shutdown costs to ratepayers since Crystal River 3 went on line in 1977.
5. The economic status of the Barnwell, South Carolina reprocessing plant since its inception to the present.
6. Any report on a nuclear power plant accident scenario, (excluding the Rasmussen Report), where the radioactive effect or plume, immediately or in the future, would reach greater than ten miles radius from the plant.
7. An original copy and any updated copy of NUREC-0002 entitled- Generic Environmental Statement on the Use of Mixed Oxide fuels in the L.W.R. Fuel Cycle (Gesmo), N.R.C. 1976.
8. A description of planned radioactive releases during normal operation of Crystal River 3 Reactor.
9. A description including types, amount, and level of unplanned radioactive gas release from 7-6-77 to the present. Include any safety analysis if available, AT CRYSTAL RIVER 3.

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(2)

10. A description of amounts and safety factor for high levels of I-131 reported since 7-17-77, at Crystal River 3.

11. Explanation of why there were numerous improper environmental samples made in and around the Crystal River Plant and what is there effect on radiation contamination reporting.

12. Safety analysis of numerous cases of improper rod positioning at Crystal River 3 and safety implications.

13. A description and safety analysis of the two burnable poison rods that came loose in steam generator on 2-17-78 and which caused a forced shutdown on 3-3-78, at Crystal River 3.

14. An explanation and safety analysis of improper welds as discovered on 8-4-78, Crystal River 3.

15. An explanation and safety analysis of fuel test weight dropped in fuel pool on 6-9-78, at Crystal River 3.

16. An explanation and safety analysis of core flux tilt and quadrant power tilt that occurred on 9-18-78 and 5-11-78 respectively, and a safety analysis, at Crystal River 3.

17. An explanation of the flooding of the turbine building on 1-17-79 and a safety analysis, at Crystal River 3.

18. An explanation of the need to repair expansion joints and a safety analysis on 3-4-79, at Crystal River 3.

19. An explanation of various metabolism deviations and whole body rem overexposure that occurred at Crystal River and a safety analysis.

20. An explanation of what caused the nuclear instrument panel inoperable on 5-9-79 and a safety analysis, at Crystal River 3.

21. An explanation and a safety analysis of high reactor core pressure due to feedwater oscillation on 8-16 and 8-17 1979 at Crystal River 3.

22. An explanation and a safety analysis of the fire that occurred on 9-24-79, at Crystal River 3 Nuclear Power Plant.

Sincerely,

*Michael Givel*  
Michael Givel

THIS REPORT HAS BEEN PREPARED AS REQUIRED BY SF5 6.9.1.5 FOR 1979

#### NUMBER OF PERSONNEL, (>100MRE/M)

| WORK & JOB FUNCTION               | STATION EMPLOYEES | UTILITY EMPLOYEES | CONTRACT WORKERS |
|-----------------------------------|-------------------|-------------------|------------------|
| REACTOR OPERATIONS & SURVEILLANCE |                   |                   |                  |
| MAINTENANCE PERSONNEL             | 1                 | 0                 | 0                |
| OPERATING PERSONNEL               | 21                | 0                 | 0                |
| HEALTH PHYSICS PERSONNEL          | 19                | 0                 | 0                |
| SUPERVISORY PERSONNEL             | 1                 | 0                 | 0                |
| ENGINEERING PERSONNEL             | 42                | 0                 | 0                |
| TOTALS                            | 102               | 0                 | 0                |
| ROUTINE MAINTENANCE               |                   |                   |                  |
| MAINTENANCE PERSONNEL             | 69                | 75                | 242              |
| OPERATING PERSONNEL               | 19                | 0                 | 1                |
| HEALTH PHYSICS PERSONNEL          | 18                | 0                 | 13               |
| SUPERVISORY PERSONNEL             | 14                | 0                 | 34               |
| ENGINEERING PERSONNEL             | 1                 | 2                 | 3                |
| TOTALS                            | 111               | 77                | 304              |
| IN SERVICE INSPECTION             |                   |                   |                  |
| MAINTENANCE PERSONNEL             | 0                 | 3                 | 19               |
| OPERATING PERSONNEL               | 0                 | 0                 | 0                |
| HEALTH PHYSICS PERSONNEL          | 0                 | 0                 | 0                |
| SUPERVISORY PERSONNEL             | 1                 | 0                 | 0                |
| ENGINEERING PERSONNEL             | 3                 | 1                 | 12               |
| TOTALS                            | 4                 | 4                 | 34               |
| SPECIAL MAINTENANCE               |                   |                   |                  |
| MAINTENANCE PERSONNEL             | 8                 | 0                 | 135              |
| OPERATING PERSONNEL               | 0                 | 0                 | 0                |
| HEALTH PHYSICS PERSONNEL          | 0                 | 0                 | 29               |
| SUPERVISORY PERSONNEL             | 0                 | 0                 | 2                |
| ENGINEERING PERSONNEL             | 3                 | 0                 | 0                |
| TOTALS                            | 11                | 0                 | 166              |
| WASTE PROCESSING                  |                   |                   |                  |
| MAINTENANCE PERSONNEL             | 14                | 6                 | 22               |
| OPERATING PERSONNEL               | 0                 | 0                 | 0                |
| HEALTH PHYSICS PERSONNEL          | 2                 | 0                 | 0                |
| SUPERVISORY PERSONNEL             | 0                 | 0                 | 0                |
| ENGINEERING PERSONNEL             | 0                 | 0                 | 0                |
| TOTALS                            | 16                | 6                 | 22               |
| REFUELING                         |                   |                   |                  |
| MAINTENANCE PERSONNEL             | 6                 | 17                | 6                |
| OPERATING PERSONNEL               | 0                 | 0                 | 0                |
| HEALTH PHYSICS PERSONNEL          | 0                 | 0                 | 0                |
| SUPERVISORY PERSONNEL             | 0                 | 0                 | 0                |
| ENGINEERING PERSONNEL             | 1                 | 0                 | 9                |
| TOTALS                            | 7                 | 17                | 15               |
| TOTAL                             |                   |                   |                  |
| MAINTENANCE PERSONNEL             | 98                | 101               | 424              |
| OPERATING PERSONNEL               | 40                | 0                 | 7                |
| HEALTH PHYSICS PERSONNEL          | 29                | 0                 | 42               |
| SUPERVISORY PERSONNEL             | 16                | 0                 | 17               |
| ENGINEERING PERSONNEL             | 2                 | 3                 | 55               |
| TOTALS                            | 185               | 104               | 569              |
| GRAND TOTAL                       | 192               | 104               | 569              |

| TOTAL MAN-RE4 |       | STATION EMPLOYEES |      | UTILITY EMPLOYEES |      | CONTRACT WORKERS |       |
|---------------|-------|-------------------|------|-------------------|------|------------------|-------|
| 0.00          | 27.55 | 0.00              | 0.01 | 0.00              | 0.00 | 0.00             | 27.56 |
| 13.75         | 38.51 | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.00          | 3.89  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.00          | 3.80  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.00          | 3.89  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 48.35         | 48.35 | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.01          | 0.01  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.09          | 0.09  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.02          | 0.02  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.04          | 0.04  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 1.35          | 1.35  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 1.51          | 1.51  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 4.44          | 4.44  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 3.85          | 3.85  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.02          | 0.02  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.16          | 0.16  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.02          | 0.02  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 4.05          | 4.05  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 2.49          | 2.49  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.01          | 0.01  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.00          | 0.00  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.23          | 0.23  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 0.20          | 0.20  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 6.93          | 6.93  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 47.24         | 47.24 | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 17.61         | 17.61 | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 15.72         | 15.72 | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 4.18          | 4.18  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 1.81          | 1.81  | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |
| 88.61         | 88.61 | 0.00              | 0.00 | 0.00              | 0.00 | 0.00             | 27.56 |

SEE ATTACHMENT FOR SPECIAL MAINTENANCE EXPOSURE EXPLANATION, IF APPLICABLE.

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES