



DEFENSE NUCLEAR AGENCY

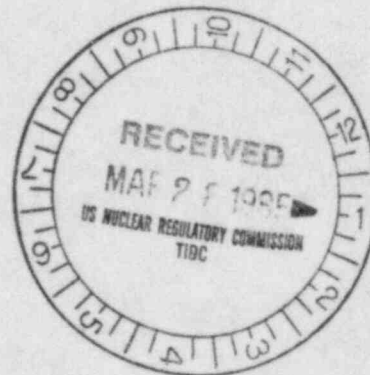
ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE
BETHESDA, MARYLAND 20814

TO: Regional Administrator
USNRC
631 Park Avenue
King of Prussia, PA 19406

USNRC
Director Of Inspection and Enforcement
Washington, D. C. 20555

✓ USNRC
Director of Nuclear Reactor Regulation
Washington, D. C. 20555

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Dear Sirs:

Please find enclosed the fourth quarter section of the annual report for the Armed Forces Radiobiology Research Institute reactor facility. This report, when attached to the previously submitted annual report for 1 Oct 83 to 30 Sept 84, will constitute a complete report for CY 1984. Enclosed are required copies of the SAR updated to Sept 1984. The sheet attached (to the SAR) summarizes SAR changes made under 10CFR50.59 and reviewed by the reactor safety committee, and changes made during the AFRRI relicensing action. These changes occurred as a result of errors in the original SAR, from interaction between NRC and AFRRI during the 4-year relicensing period, and from administrative changes from 1981 to Sept 1984. The attached sheet is a list summarizing the changes made to the SAR. The list refers to each change by its page, as found in the new SAR dated Sept 1984. The contact for information on these reports is the Reactor Facility Director, Mr. Mark Moore. He may be reached at 301-295-1290.

Bobby R. Adcock
BOBBY R. ADCOCK
Colonel, MS, USA
Director

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1/20 SAR*

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Summary of SAR Changes

The SAR dated Sept 1984 includes changes from the original published date of May 1981 to Sept 1984. These changes were reviewed by the AFRRI Reactor and Radiation Facility Safety Committee and found to contain no unreviewed safety questions and were made under 10CFR50.59.

The following summarizes those changes made in the enclosed copies of the AFRRI SAR. Since many of the changes are simply changes of names or new function (administrative) diagrams, all such changes will be labeled administrative. Changes resulting from incorrect spelling, punctuation, and grammar are labeled grammar. Changes resulting from communication with the NRC during the licensing process (questions and answers) or as a result of the intervention process are labeled relicensing process. Other changes summarized on an individual basis.

| Change # | Page | Change # on page | Summary of change |
|----------|------|---------------------|---|
| 1 | i | 1 | Administrative |
| 2 | lv | 1 | Administrative |
| 3 | lv | 2 | Administrative |
| 4 | 1-1 | 1 | Administrative |
| 5 | 2-1 | 1 | Administrative |
| 6 | 2-1 | 2 | Administrative |
| 7 | 2-1 | 3 | Administrative |
| 8 | 2-1 | 4 | Administrative |
| 9 | 2-7 | 1 | Administrative |
| 10 | 2-10 | 1 | Administrative |
| 11 | 2-10 | 2 | Administrative |
| 12 | 3-7b | 1 | Describes a new Reactor ventilation system. Full description submitted to NRC 1983. System is switched to single pass, negative pressure air from multipass, negative pressure air in Reactor room ventilation system. System becomes single branch of institute air. |
| 13 | 3-8 | 1 | Diagram of Change 12 |
| 14 | 3-10 | 1 | Deleted explanation of old air system. |
| 15 | 3-11 | 1 | A more complete description of how the dampers are closed to isolate reactor room. |
| 16 | 3-15 | 1 | Allows bulk water temperature measurement to be taken in a more representative area of pool. |
| 17 | 3-16 | 1 | Relicensing process. Changes averaging time of conductivity requirements from monthly to weekly. |
| 18 | 3-26 | 1 | Changes the description of RAM monitoring system to describe equal but updated system. |
| 19 | 3-26 | 2 | Grammar |
| 20 | 3-27 | 1 | Makes RAM audible alarms in remote locations optional (SAF Room). |
| 21 | 3-27 | 2 | Same as #20 |
| 22 | 3-29 | 1 | Places all compressed air supplies into one unit under reactor staff control. |
| 23 | 3-29 | 2 | Describes #22 |
| 24 | 3-29 | 3 | Describes #22 |
| 25 | 3-41 | 1 | Administrative |

| | | | |
|----|------|---|--|
| 26 | 4-1 | 1 | Changes wording to reflect true fuel composition (20% to <20%). |
| 27 | 4-1 | 2 | Reword and regroup descriptions of experimental facilities. |
| 28 | 4-1 | 3 | Same as 27 |
| 29 | 4-1 | 4 | Same as 27 |
| 30 | 4-3 | 1 | Add <u>As Required</u> to PTS since tubes are not normally installed. |
| 31 | 4-6 | 1 | Same as 27 |
| 32 | 4-8 | 1 | Same as 27 |
| 33 | 4-12 | 1 | Same as 26 |
| 34 | 4-13 | 1 | Same as 26 |
| 35 | 4-15 | 1 | Describes control rod air followers as allowed in Technical Specifications. |
| 36 | 4-16 | 1 | Same as 35 |
| 37 | 4-19 | 1 | Same as 35 |
| 38 | 4-27 | 1 | Grammar |
| 39 | 4-28 | 1 | Relicensing process. Describes Spec scrams. |
| 40 | 4-30 | 1 | See 33 |
| 41 | 5-1 | 1 | See 30 |
| 42 | 5-1 | 2 | See 32 |
| 43 | 5-5 | 1 | Administrative |
| 44 | 5-8 | 1 | See 41 |
| 45 | 5-9 | 1 | See 20 |
| 46 | 5-14 | 1 | Administrative |
| 47 | 5-14 | 2 | Administrative |
| 48 | 5-15 | 1 | Administrative |
| 49 | 5-15 | 2 | Administrative |
| 50 | 5-15 | 3 | Administrative |
| 51 | 6-2 | 1 | Administrative |
| 52 | 6-14 | 1 | Administrative |
| 53 | 6-17 | 1 | Administrative |
| 54 | 6-18 | 1 | Administrative |
| 55 | 7-2 | 1 | Administrative |
| 56 | 7-3 | 1 | Changes the requirement for director of AFRRI from Medical Department to Medical Services Corps officer. |
| 57 | 7-4 | 1 | Relicensing process. Describes RRFSC. |
| 58 | 7-4 | 2 | Same as 57 |
| 59 | 7-5 | 1 | Administrative |
| 60 | 7-5 | 2 | Administrative |
| 61 | 7-5 | 3 | Administrative |
| 62 | 7-5 | 4 | Administrative |
| 63 | 7-6 | 1 | Administrative |
| 64 | 7-6 | 2 | Administrative |
| 65 | 7-7 | 1 | Administrative |
| 66 | 7-8 | 1 | Administrative |
| 67 | 7-8 | 2 | Administrative |
| 68 | 7-8 | 3 | Administrative |
| 69 | 7-8 | 4 | Administrative |
| 70 | 7-8 | 5 | Administrative |
| 71 | 7-8 | 6 | Administrative |