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UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

April 22, 1970

Superseded

Docket No. 50-172

Lockheed-Georgia Company
A Division of Lockheed
Aircraft Corporation
Marietta, Georgia 30060

Attention: A. E. Flock, Jr.
Vice President, Advanced Program

Change No. 7
License No. R-86

Gentlemen:

By letter dated March 18, 1970, you responded to our request for proposed changes to the Technical Specifications appended to Facility License No. R-86. Your proposal eliminates an ambiguity in the previous wording regarding the use of the Fission Products Monitor.

Your letter also proposed changes to the Technical Specifications which would better define the conditions for personnel access to the inner exclusion area (the area within the 3600-foot fence) while the reactor is operating.

Mr. Thomas and Mr. Amend of your staff have agreed to: (a) restrictions on operator access to the reactor building, (b) an additional reactor scram which will be installed in accordance with IEEE Criteria for Nuclear Power Plant Protection Systems (August 30, 1968) except for paragraph 4.12, and (c) minor editorial changes to your proposal. We have reviewed the proposed Technical Specification changes, as modified, and have found that the health and safety of the public will not be endangered by operation of the reactor in the proposed manner.

Accordingly, pursuant to Section 50.59, 10 CFR Part 50, the Technical Specifications of Facility License No. R-86, as amended, are changed as set forth in Attachment A to this letter.

Sincerely,

for Donald J. Skovholt
Assistant Director for Reactor Operations
Division of Reactor Licensing

Enclosure:
Attachment A- Changes to the
Technical Specifications

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ATTACHMENT A

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CHANGE NO. 7 TO TECHNICAL SPECIFICATIONS

LICENSE NO. R-86

LOCKHEED AIRCRAFT COMPANY

DOCKET NO. 50-172

1. Replace third sentence, Section A.3 with the following:

   Personnel may enter the area within the 3600-foot fence and outside the operations building while the reactor is operating provided that each such entry is governed by Section J.2.e of the Technical Specifications and the provisions of administrative control procedures approved by the Reactor Safety Committee.

2. Section A.3, add the following:

   In any event, personnel will be excluded from the ground level area within 500 feet of the reactor while the reactor is operating with the core center line less than ten feet below the surface of the pool.

3. Replace the second and third sentences of Section B.2. with the following:

   Reactor and experimental controls are located in this building, and during reactor operations, all personnel will remain within the operations building except as outlined in Section A.3. Doors to the operations building are electrically controlled from the reactor console during reactor operations.

4. Change Section C.2., beginning with third sentence, to read as follows:

   If the rate of increase exceeds a factor of two (2) in fifteen minutes after the first hour of level operation, the reactor is shut down pending detailed investigation as to cause. Backup instrumentation may be used in lieu of the fission products monitor if the FPM is not operating. In this case, gross activity of the primary coolant will be monitored using an on-line detector or by analysis of grab samples of the primary coolant taken at least once every two hours during continued operation. The reactor will be shut down if the indicated activity exceeds the normal value by a factor of five. Previously established normal values will be approved and documented by the RSC.

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Continued operation without an operating FPM will be limited to five days. If operation without an operating FPM continues beyond the period of one day, daily grab samples will be analyzed for alpha activity using a gas flow counter.

In any event, the gross activity of the primary coolant loop, as determined by routine samples taken with the reactor shut down will not exceed 1 x 10^{-2} μCi/cc.

5. Change that part of Section I.4. (Minimum Instrumentation Channels) which applies to the FPM to read as follows:

	Channels Provided For		Minimum Instrumentation		
	Normal Operation	Reactor Shutdown	Startup	Routine Operation	Loading
F.P. Monitor	1	0	1*	1*	0

*Backup instrumentation may be used in lieu of the fission products monitor as stated in Section C.2.

6. Under "Interlock and Permissive" for "Trouble Monitor" in Section I.5.a, change "from" to "scram".

7. After the last item in Section I.5.a, add the following:

Reactor Position*	Reactor raised above limit	_____	Relay scram for reactor centerline higher than 10 feet below surface of the pool

*Applicable for reactor operations involving reactor building entry only.

8. After Section J.2.d, add the following:

e. Experiments involving reactor building entry.

The reactor building may not be entered while the reactor is operating unless all of the following conditions are met:

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(1) Reactor lift power supply breaker is locked and tagged open at the motor control center;

(2) The lift pump manual isolation valves are closed;

(3) A limit switch device is provided which will cause a relay scram if the core centerline is raised to within 10 feet of the surface of the reactor pool; and

(4) A gamma monitor system is provided which will cause an audible alarm in the reactor building if the background dose rate in the building exceeds a predetermined level. The trip level will be set at 20 mRem/hr or less.

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