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ACCESSION NBR:8212080384 DOC.DATE: 82/12/02 NOTARIZED: NO DOCKET #
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CRUTCHFIELD,D. Operating Reactors Branch 5

SUBJECT: Advises of expected completion dates for TMI Items II.B.2 re radwaste remote control sys,II.B.3 re post-accident sampling sys,II.D.1 re safety & relief valve testing & III.D.3.4 re control room HVAC mods.

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December 2, 1982

Director of Nuclear Reactor Regulation
Attention: Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch No. 5
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Post-TMI Requirements
R. E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Crutchfield:

The purpose of this letter is to inform you of the expected completion dates for four post-TMI requirements: a new radwaste remote control system under NUREG-0737 item II.B.2, a post-accident sampling system (PASS) under item II.B.3, safety and relief valve testing for item II.D.1, and control room HVAC modifications under item III.D.3.4.

Letters dated December 15, 1980, September 4, 1981 and November 25, 1981 have described the radwaste remote control system modification and its installation schedule. Our shielding and dose studies following the TMI accident indicated that it is prudent to have the capability to operate portions of the existing radwaste equipment from a remote location even though experience at TMI has shown that existing equipment configuration will probably not be used for long-term recovery and cleanup following accidents with similar fuel damage. Existing radwaste equipment may be used following less significant accidents. Because it is difficult to define when the radwaste equipment may be used and because the modification will aid in our normal operation ALARA program, we have committed to installation of a new radwaste remote control system. Our previously scheduled installation date was November 1982 based upon equipment delivery in September and a preliminary construction estimate of two months. All of the equipment has not yet arrived on site but it is expected by mid-December. Finalization of the design has shown installation will require significantly more construction work. We now anticipate a work start authorization in early January 1983. Construction will take approximately four months and thus will be completed in May 1983. Testing to confirm operability of the remote control system will follow installation. This is the first

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computer-based digital controller to be used at Ginna so that the amount of system testing and trouble shooting that will be required is unknown. Experience with other types of recently installed equipment leads us to estimate that system debugging will probably take 60 to 90 days following installation. Thus we expect to have the radwaste remote control system operable in July 1983 unless unforeseen difficulties arise.

The PASS schedule is unchanged since our reevaluation following a contractor-employed labor personnel strike. We are nearing completion of the PASS installation. Concurrent with construction, preoperational testing of the system is being performed. During this testing a valve in the discharge line of the PASS to the containment sump has failed. Since this valve is inside the containment vessel, it cannot be replaced until our March 1983 shutdown.

The valve is not necessary to obtain the samples required by NUREG-0737 but it does affect the disposal of samples. Samples drawn using the PASS must be directed to the waste disposal system or isolated in shielded containers. Unless other failures which cannot be corrected without an outage occur, the PASS will be operational by mid-February 1983, as stated in our letter of September 16, 1982. The option to discharge samples to the containment sump will not be available, however, until the failed valve can be replaced.

The safety and relief valve testing item, II.D.1, has yielded preliminary results that show that the Ginna pressurizer safety and relief valves will function in an acceptable fashion. Two evaluations remain to be submitted. The first is to verify our preliminary evaluation that the specific valves used at Ginna will function adequately under all expected operating conditions. The second is to confirm the adequacy of safety and relief valve piping. We anticipate having all analyses complete and a final report prepared by February 1983. To date no modifications have been identified which are required to ensure the operability or integrity of the relief and safety valve system. A few minor modifications will be made to the supports for relief piping leading to the pressurizer relief tank (e.g. support shims), however, these modifications are not required for the relief and safety valves to function properly. The modifications will be made to ensure that analysis assumptions are valid for downstream piping, although not required for valve operability, and to assure that fluid relieved from the pressurizer will be directed to the relief tank. No modifications are anticipated to comply with TMI Lessons Learned requirements. Submittal of the final reports should complete the action items.

Letters dated September 4, 1981 and June 11, 1982 identified modifications planned to comply with item III.D.3.4, control room habitability. The modifications included adding detectors for ammonia, chlorine and radiation in the air intake to automatically isolate the HVAC system. We also committed to evaluate charcoal filter residence times and to evaluate alternatives for reducing control room ammonia concentrations. We have concluded that the ammonia tank should be relocated to reduce the risk of elevated ammonia concentrations in the control room and have prepared a preliminary design. We anticipate beginning the relocation during the summer of 1983. The other modifications and the charcoal filter residence time evaluation have been delayed to consider the impact of SEP and environmental qualification reviews upon the control room HVAC system. We also acknowledge receipt of your October 18, 1982 letter requesting modifications to the intake and exhaust ductwork to install additional dampers. It is best to coordinate all of the reviews and design changes in a single modification package. Nevertheless, it appears that the addition of detectors for toxic substances can be installed without significant impact on the remainder of the system. If this is the case, these modifications can be installed during the 1984 refueling outage. Lead times for the equipment extend beyond the 1983 refueling outage. An outage is required for installation because of system operability requirements during operation. The added detectors and the relocation of the ammonia tank will complete the modifications to limit toxic substances in the control room by the end of the 1984 refueling outage. Any additional modifications resulting from SEP review, environmental qualification, or your recent letter are anticipated to be performed on a schedule consistent with the currently proposed regulation 10 CFR 50.49.

Very truly yours,

John E. Maier