

DCD/DCB

OCT 10 1990

Mallinckrodt Medical, Inc.
ATTN: Roy Brown, Manager
Regulatory Compliance
2703 Wagner Place
Maryland Heights, MO 63403

License No. 21-04206-01
Docket No. 030-00001

Dear Mr. Brown:

Thank you for your letter dated August 27, 1990, informing us of the status of Emergency Plan enhancements we discussed during our August 1989 meeting. We have reviewed the listing of planned enhancements and the completion schedule and find it acceptable. Therefore, at this time, I do not feel there is a need to meet to discuss this issue. If you find that any significant delays are encountered in completion of this schedule please notify Gary Shear or Roy Caniano of my staff.

I would also like to take this opportunity to express my appreciation for your help in updating our emergency briefing package for your facility.

If I or members of my staff can be of assistance in the future, please let me know.

Sincerely,

ORIGINAL SIGNED BY C. E. NOBELIUS

Charles E. Norelius, Director
Division of Radiation Safety
and Safeguards

cc w/ltr dtd 08/27/90:
DCD/DCB (RIDS)

bcc w/ltr dtd 08/27/90:
W. Snell, RIII

9011010187 901010
REG3 LIC30
21-04206-01 PNU

RIII
Shear/sd
10/7/90

RIII
Caniano
10/7/90

RIII
Grobe
10/7/90

yes
RIII
Norelius
10/9/90

11
LE07



Mallinckrodt Medical, Inc.

2703 WAGNER PLACE • MARYLAND HEIGHTS, MO 63043 • (314) 344-3800

Ray Cariano
Bill Adams
Chuck ...
Bill Smith
James M.
9/4/90
Jay ...

August 27, 1990

Mr. Charles Norelius, Director
Division of Radiation Safety
and Safeguards
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Norelius:

Mallinckrodt Medical has been making progress on the enhancements to our emergency plan that we discussed in our meeting of August 25, 1989. I wanted to take this opportunity to update you on the major changes that are underway, and provide you a tentative timetable for their completion. The overall timetable on these enhancements has been extended due to the required in-house approvals and budgeting cycles. However, I am confident you appreciate our difficulties, and will find this timetable acceptable.

Many of the planned enhancements that we discussed have already been implemented. The larger items are currently being worked on. The off-site dose assessment software package is currently being developed by NUS Corporation. Attached is a letter from them detailing various milestones in their work.

Below is a summary of the estimated completion dates on various enhancements we are making in our emergency plan:

<u>ITEM</u>	<u>COMPLETION DATE</u>
Capital Project Request Approval	Jun 01, 1990
Purchase Additional Radios/Telephones	Aug 01, 1990
Install Emergency Egress Gates at South Fence	Aug 15, 1990
Complete EMERGE Interface Software (NUS)	Sep 15, 1990
Install Site Meteorological Tower	Oct 01, 1990
Preliminary Meeting with Off-Site Emergency Response Agencies	Oct 01, 1990
Complete Digitized Mapping of Site (NUS)	Oct 15, 1990
Complete EMERGE Software (NUS)	Nov 01, 1990
Complete Chemical Assessment Software (NUS)	Dec 01, 1990
Modify Plan to Incorporate Off-Site Dose Modeling	Dec 01, 1990
Submit Plan to Off-Site Response Agencies	Jan 01, 1991
Amend NRC License to Incorporate a Major Contingency Plan Revision	Mar 15, 1991

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These changes will give us the capability to estimate off-site doses as far as 10 miles from the site, based on source term information. The dose assessments can then be updated as actual field data comes in. This will be a real time model based on real-time meteorological data from our on-site tower. We will also have the capability of assessing off-site impact of non-radioactive chemical releases. Several other planned enhancements in our Emergency Control Center will also improve our response capabilities.

We will continue to keep your office informed of our progress on these enhancements. If you would like to get together to discuss these changes in person, please let me know. If you have any questions concerning our progress, feel free to contact me at (314) 344-3977.

Sincerely yours,



Roy W. Brown, Manager
Regulatory Compliance

Attachments

cc: B. Mallett ✓
G. Shear



610 CLOPPER ROAD
GAITHERSBURG, MARYLAND 20878-1399
301-258-8000

RPD-90-094
August 27, 1990

Mr. Roy W. Brown
Manager, Regulatory Compliance
Mallinckrodt Medical, Inc.
2703 Wagney Place
Maryland Heights, MO 36043-3493

Subject: Tentative schedule for the installation of a meteorological station and associated software for dose assessment.

Dear Mr. Brown:

Per our discussion on Friday, August 24, 1990, I have drafted a tentative schedule for the complete installation and check out of the proposed meteorological station and computer software for dose assessment.

- Phase 1 - software interface to be completed by September 15, 1990.
- Phase 2 - installation of the Meteorological system to be installed by October 1, 1990 (providing that our vendors can meet our delivery demands).
- Phase 3 - preparation of digital map data to be used in the EMERGE model will be conducted in two steps (1) development of generalized map information from USGS and other regional map sources to be used primarily for the area between 2 and 10 miles and (2) development of more detailed information from aerial photography and plant engineering drawings to be used for the area within 2 miles of the facility. The generalized digital map data, including major road, hydrologic feature, and county and municipal boundary data layers will be provided by October 1, 1990. Completion of more detailed map data, including local roads, facility building footprints, and sensitive/special receptors, is contingent upon receipt of current aerial photography (yet to be flown) and receipt of plant site plans and other local mapping information discussed in the August 24th meeting. Approximately two weeks are required following receipt of the information to complete interpretation of the aerial photography and digitize the information into the GIS database.

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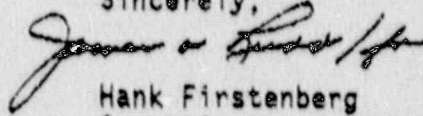
Phase 4 - EMERGE-PC to be completed by November 1, 1990 and

Phase 5 - chemical analysis of EMERGE to be completed by December 1, 1990.

We look forward to working with you on this project and will strive to do everything possible to meet the schedule as outlined.

Should you have any further questions, please feel free to contact me at (301) 258-8671.

Sincerely,



Hank Firstenberg
Operations and Technical Director

cc: J. Rudd
J. Annett
K. Eckerstrom
File