

July 24, 2002

MEMORANDUM TO: Claudia M. Craig, Section Chief
Facilities Decommissioning Section
Decommissioning Branch, DWM

FROM: John T. Buckley */RA/*
Facilities Decommissioning Section
Decommissioning Branch, DWM

SUBJECT: MEETING REPORT FOR THE JULY 8, 2002, MEETING WITH
MALLINCKRODT INC.

On July 8, 2002, U.S. Nuclear Regulatory Commission (NRC) staff members met with representatives of Mallinckrodt Inc. (Mallinckrodt) to discuss implementation of its Phase 1 Decommissioning Plan (DP). In addition, participants discussed technical issues associated with Mallinckrodt's Phase 2 DP. Attached is the meeting report documenting this meeting.

Attachment: Meeting Report

Docket: 040-06563

License: STB-401

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MEETING REPORT

Date: July 8, 2002

Time: 1:00 pm to 4:00 pm

Place: U.S. Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, MD 20852

Purpose: To Discuss Implementation of Mallinckrodt Inc.'s Phase 1 Decommissioning Plan and Technical Issues Associated with Phase 2 Decommissioning

Attendees: NRC Mallinckrodt
John Buckley Mark Puett
Jean-Claude Dehmel Henry Morton
Claudia Craig

Background:

On November 11, 1997, Mallinckrodt Inc. (Mallinckrodt) submitted its Phase 1 Decommissioning Plan (DP) to the U.S. Nuclear Regulatory Commission (NRC) for review and approval. Phase 1 of the decommissioning process includes demolition or decontamination of above ground buildings and equipment. Phase 2 includes the cleanup of surface and subsurface soils and building foundations. Mallinckrodt is scheduled to submit its Phase 2 DP in January 2003. Most of the contamination at the Mallinckrodt facility is being remediated under the U.S. Department of Energy's Formerly Utilized Sites Remedial Action Program (FUSRAP) program managed by the U.S. Army Corps of Engineers (USACE). The NRC portion of the facility is being cleaned up by Mallinckrodt to terminate its NRC license.

Discussion:

Meeting participants discussed the following items: (1) implementation of Phase 1 of C-T decommissioning; and (2) preparation of the Phase 2 DP.

With regard to agenda Item 1, Mallinckrodt would like to transfer solid wastes from Phase 1 decommissioning activities to the U.S. Ecology facility in Idaho. On June 24, 2002, Mallinckrodt requested NRC approval to send certain solid wastes containing less than 0.05 weight percent of source material to the U.S. Ecology Idaho facility. During the meeting, Mallinckrodt inquired about NRC's schedule for approving this request. NRC responded that a definitive schedule had not yet been developed.

Mallinckrodt also inquired about the possibility of transferring maintenance soil (soil resulting from routine maintenance around the facility) to the U.S. Ecology Idaho facility, along with solid waste from Phase 1 decommissioning activities. Mallinckrodt informed NRC that this maintenance soil would contain non-NRC licensed radioactive material at a level below the free release criteria set by USACE. Participants discussed several issues regarding the transport of non-NRC licensed material with C-T decommissioning waste. First, since the soil contains non-NRC licensed material and meets the free release criteria set by USACE, does Mallinckrodt

need NRC's approval to release the soil in any manner? Second, what steps will Mallinckrodt take to characterize the soil before it is packaged for transport with C-T decommissioning material, and what affect will the soil have on the estimated dose from disposal at U.S. Ecology? And third, how much soil will be transported with C-T decommissioning material, and what affect will this additional material have on the estimated volume of waste from decommissioning? If the actual amount of soil will significantly change from the estimated volume of waste that was presented in the approved DP, it may be necessary for Mallinckrodt to keep detailed records of how much actual decommissioning waste was shipped by its origin (C-T vs USACE). After the discussion, NRC requested additional time to study the issues.

The second agenda item dealt with the status of Phase 2 decommissioning activities. Mallinckrodt informed NRC that Phase 2 DP development is on schedule to be submitted in January 2003. Mallinckrodt indicated it is having difficulty finding detailed geology, seismology and hydrology information in the literature. NRC stated that the information presented in the Phase 2 DP had to be specific enough to support an environmental assessment (EA) and safety evaluation report. Since an EA had been prepared by USACE using information from existing literature, NRC stated that the same information should be sufficient to prepare an EA for the C-T decommissioning project.

Mallinckrodt also stated that it had completed the dose modeling necessary to derive a shallow soil concentration guideline limit. Mallinckrodt is still considering whether it is necessary to derive a separate concentration guideline limit for deep soil.

The meeting was adjourned at 3:45 am.

Actions:

1. NRC will determine if Mallinckrodt is able to package and transport maintenance soil with solid waste material from C-T decommissioning activities and notify Mallinckrodt.