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**Centers for Disease Control and Prevention**  
**National Institute for Occupational Safety and Health**  
**Advisory Board on Radiation and Worker Health (ABRWH)**  
**Subcommittee for Procedures Review**

September 29, 2022

**Thursday, September 29, 2022**

**Summary Proceedings**

The Subcommittee for Procedures Review meeting convened via teleconference at 11:06 a.m. Eastern Daylight Time (EFT), Dr. Rashaun Roberts, Designated Federal Official, presiding.

**Attendees**

**Members**

Josie Beach, Member  
Loretta Valerio, Member  
Paul Ziemer, Member

**Non-Members**

Roberts, Rashaun, Designated Federal Official  
Adams, Nancy, NIOSH contractor  
Barton, Bob, SC&A  
Behling, Kathy, SC&A  
Buchanan, Ron, SC&A  
Calhoun, Grady, DCAS  
Cardarelli, John, DCAS  
Crawford, Chris, DOL  
Farver, Doug, SC&A  
Gogliotti, Rose, SC&A  
Harrison, David, ORAUT-OTIB  
Habighurst, Ashton, HHS  
Marion-Moss, Lori, DCAS  
Nelson, Chuck, DCAS  
Rolfes, Mark, DCAS  
Rutherford, LaVon, DCAS  
Sharfi, Mutty, ORAUT-OTIB  
Taulbee, Tim, DCAS

## **Roll Call/Welcome - Dr. Rashaun Roberts, DFO**

Dr. Rashaun Roberts called to order the Subcommittee for Procedures Review at 11:06 a.m. EDT on September 29, 2022, via teleconference. A roll call of all Subcommittee members confirmed that a quorum was present. The quorum was maintained throughout the meeting. Subcommittee members, federal staff, and contractors announced conflicts-of interest during roll call. Dr. Roberts turned the meeting over to Ms. Beach, Subcommittee chair.

## **Carry Over Items from May 25, 2022, SCPR Meeting**

### **DCAS PER-093, “Texas City Chemicals TBD Rev. 01”**

Rose Gogliotti, SC&A, presented the history of the Texas City Chemicals facility, technical documents and reviews associated with it, and findings from SC&A’s review of PER-093. SC&A did not have any findings about how the PER was performed. They recommended to the Subcommittee that they should be tasked to review one of the cases that DCAS had re-evaluated as part of the PER. The Subcommittee agreed and assigned SC&A that task, and DCAS agreed that it would select a case for SC&A review.

### **DCAS PER-092, “Weldon Spring Plant”**

Ron Buchanan, SC&A, presented the history of the Weldon Spring Plant and the various revisions that DCAS has prepared for the environmental dose chapter of the Weldon Spring TBD. PER-092 was prepared to address the changes made in Rev. 4. SC&A did not have any findings about how the PER was performed, although they did identify two typographical errors. They identified three exposure scenarios that should be included in the cases that will be selected for their review. They did not recommend a number of cases, because it might be possible to evaluate all three scenarios in a single case. On the other hand, it might be necessary to select two or three cases for review in order to include all three scenarios. The Subcommittee agreed and assigned SC&A that task, and DCAS agreed that it would select a case or cases that include all three scenarios for SC&A to review.

### **Battelle TBD-5000, “Default Assumptions and Methods for Atomic Weapons Employer Dose Reconstructions”**

Dr. John Cardarelli, DCAS, summarized DCAS’s response to SC&A’s review of Battelle TBD-5000. This document was prepared in 2007, but the Subcommittee only fairly recently tasked SC&A to review it. SC&A’s review, which was completed in January 2022 included 13 observations. Dr. Cardarelli reported that, in all but one case, SC&A’s observations pertain to guidance that is no longer utilized in EEOICPA dose reconstructions, having been superseded by guidance in newer technical documents. The one instruction that has not been superseded is to apply a Geometry Standard Deviation of 3.0 to doses that are reconstructed using ICRP metabolic models. Dr. Cardarelli said DCAS is preparing a separate technical document on this subject which will supersede the guidance in TBD-5000. Once that document is complete and DCAS assures that there is no guidance in TBD-5000 that isn’t superseded or contained elsewhere, it expects to cancel TBD-5000.

Dr. Bob Anigstein, SC&A, provided SC&A’s response to DCAS’s presentation. He noted that much of the guidance in TBD-5000 has been superseded by newer documents. Because of that, SC&A recommends that it review the newer documents before the observations from their review of TBD-5000 are closed. In addition, for some observations where DCAS reports newer guidance is available, it is not clear exactly what the newer guidance is. Consequently, SC&A recommends closing only observations 1, 3, 9, 10, and 11. The Subcommittee concurred and closed those observations. Dr. Anigstein will provide a written

summary of today's verbal presentation, DCAS will provide additional information for observations where it has been requested, and the Subcommittee will task SC&A with reviewing documents containing newer guidance.

## **DCAS PER-073, "Birdsboro Steel and Foundry Company"**

Mark Rolfes, DCAS, presented the history of Birdsboro and DCAS's response to Finding 1 from SC&A's review of this PER. Birdsboro Steel is a covered Atomic Weapons Employer (AWE) for the years 1951 and 1952. It received relatively small amounts of uranium for Atomic Energy Commission work during that time. SC&A's review finding was that DCAS didn't address exposures from radiography activities which used radium and cobalt sources and a Betatron X-ray machine. DCAS's research leads it to conclude that the radiography involved steel, not uranium, that the Betatron was located in a different building than the uranium work, and that the other radiography occurred after the covered period. SC&A only received DCAS's report shortly before this meeting and will respond at a future Subcommittee meeting.

## **Dose Reconstruction Methodology for the Peek Street Facility**

Dr. Tim Taulbee, DCAS, presented information about Dose Reconstruction Templates, which provide guidance for some dose reconstructions at sites that do not have Site Profiles. Dr. Taulbee emphasized that Templates generally have limited application, unlike Technical Basis Documents (TBDs). Dose reconstructors frequently have to generate individualized dose reconstructions for claims from sites that rely on Templates. He presented a list of sites where Templates are used, along with the number of claims from each site, based on 2019 data. More recent data is not available because of the Cybersecurity Modernization Initiative. Because of the number of claims, DCAS is preparing TBDs for the four sites with the most claims. After completing those, they will word down the list until they have TBDs for all sites with more than 100 claims. At that point DCAS will consider if it's desirable to develop TBDs for sites with fewer than 100 claims. After some discussion, the Subcommittee decided that, rather than review Templates by themselves, it would be more fruitful to select dose reconstructions that relied on Templates, and review how the Templates were used in those cases.

After that discussion, Dr. Taulbee provided DCAS's response to the findings and observations from SC&A's review of the Peek Street Methodology Template. SC&A developed eight findings and three observations in their review. Generally, the findings were of the nature that certain information should be added to the Template or methodology document, or that information in them should be updated. Doug Farver, SCA, presented SC&A's reaction to DCAS's Peek Street responses.

There was extensive discussion about whether placing the information in these documents or in the individual dose reconstructions was preferable. DCAS did agree to update the Template and methodology document to incorporate some of the findings and observations. After the discussion, the Subcommittee decided to keep Findings 1, 3, and 4, and Observation 2 "in progress."

Due to time constraints, the remaining items on the agenda, other than plans for the December full Board meeting and the next Subcommittee meeting were held over to the next Subcommittee meeting.

## **Preparation for December 2022 Full Board Meeting; Review of Technical Guidance Documents Ready for Full Board Approval**

The Subcommittee decided to present their completed reviews for seven documents at the next full Board meeting if the presentation does not get too long. SC&A will prepare the presentation and may delete a document or two depending on the duration of the presentation. The documents that the Subcommittee plans to present are ORAUT-0014, rev. 0; PROC-002, rev. 0; PROC-077 rev. 0; PER-047, rev. 0; PER-003, rev. 0; PER-005, rev. 0; and PER-025, rev. 0.

## **Next Subcommittee Meeting Plans**

The Subcommittee tentatively scheduled their next meeting for February 16, 2023, from 11:00 to 4:30 Eastern time.

## **Meeting Adjourned**

The meeting was adjourned at 1:37 p.m. EDT.