

## Lawrence Livermore National Laboratory 7000 East Avenue, L-198, Livermore, California, 94550

SUBJECT:	Report on Foreign Travel to the Atomic Weapons Establishment
JUDJECI.	Report of Foreign Traver to the Atomic Weapons Establishment

DATE: July 3, 2023

**TO:**Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear<br/>Security Administration / NA-ESH-21

**FROM:** David P. Heinrichs

MEETING TITLE: JOWOG-30 Steering Group Meeting

**MEETING LOCATION:** Atomic Weapons Establishment, Aldermaston, United Kingdom

MEETING DATES: May 2-4, 2023

**ATTENDEES ON BEHALF OF NCSP:** Shauntay Coleman, David Heinrichs

**MEETING PURPOSE:** The purpose was a meeting of the JOWOG-30 Advisory Group to discuss:

- (a) Organizational changes (i.e., criticality safety is now subtask J30-07-04 under a new ES&H task)
- (b) Leadership changes (Deb Lewis is J30 NNSA Lead; Jim Coy is ES&H Lead)
- (c) Finalize and present revised criticality safety tasking statement and quad charts
- (d) A "deep dive" review by the J30 Advisory Group into criticality safety

**MEETING BENEFITS TO THE NCSP:** Atomic Weapons Establishment (AWE) is a partner organization of the DOE NCSP with collaborations specified in Appendix F of the NCSP Five Year Execution Plan.

**PURPOSE OF TRAVEL:** During the week, AWE and LLNL also met to discuss the following:

- (a) Recruitment/group health
- (b) University pipeline
- (c) Hands-on training course at NATM/NCERC
- (d) ICNC
- (e) Criticality safety summit meeting at Y-12
- (f) Best practices for decontaminating gloveboxes
- (g) Status IS820 CIDS license, availability, and schedule for installation
- (h) CIDS omission cases at AWE/B and PANTEX
- (i) Status of "portable" CIDS and future testing needs
- (j) Resumption of AWE/LLNL Five Year Measurement Campaign
- (k) Establishing reference dosimetry values at AFRRI
- (I) Source term specifications for shielding calculations
- (m) Emergency response and accident exercises
- (n) Movement and accounting for hold-up within gloveboxes and ducting
- (o) Storage of fissile materials



- (p) Omission of water coolant in glovebox operations
- (q) AWE support to LLNL triennial independent internal assessment

## Persons Contacted at Atomic Weapons Establishment:

Phil Angus, Graham Auld, Simon Garbett, Matt Harker, Nigel Kelsall, Mark Roydhouse, Jennifer Turnidge

Agenda: JOWOG 30 meeting agenda May 2-4, 2023 – criticality deep dive

Tuesday May 2 <sup>nd</sup>	
09:00 - 10:00	Arrive at main gate
10:00 - 10:30	Meet and greet / tea and coffee
10:30 - 11:30	Discussion and updates around the new CIDS 820
	system and licensing
11:30 – 12:30	CIDS omission cases including the case made at
	AWE B
12:30 - 14:00	Lunch
14:00 – 15:00	Discussion and catch up regarding accident
	dosimetry
Wednesday May 3rd	
09:00 – 10:00	Arrive at main gate / tea and coffee
10:00 - 11:00	Discussion regarding appropriate source terms
	and assumptions in shielding calculations
11:00 - 12:00	Emergency response approaches
12:00 - 14:00	lunch
14:00 – 15:30	Deep dive meeting (Hampshire suite)
Thursday May 4th	
09:00 - 10:00	Arrive at main gate / tea and coffee
10:00 - 10:30	Discussion regards the NCS pipeline and
	approaches taken
10:30 - 11:00	Discussion covering the vera blocks
11:00 - 12:00	Update regarding progress with waterless
	facilities and movement control approaches
12:00 - 12:30	Triennial review and future plans
12:30 - 13:30	Lunch and close

## Distribution:

Angela Chambers, <u>angela.chambers@nnsa.doe.gov</u> Doug Bowen, <u>bowendg@ornl.gov</u> Marsha Henley, <u>henleym@ornl.gov</u>