



**United States Department of Energy
National Nuclear Security Administration
Nuclear Criticality Safety Program**

**Integral Experiment Request 206
CED-3a Summary Report**

Critical and Subcritical Experiment Design Team (CEDT)

Gary A. Harms (SNL), CEDT Lead, Experiment, and Publication Member
A. C. (Skip) Kahler (LANL), CEDT NDAG Member
Thomas M. Miller (ORNL), CEDT Methods Member
David P. Heinrichs (LLNL), CEDT Member

April 5, 2016

SAND2016-XXXX

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During CED-3a, the following information is required, as specified in the April 1, 2016 revision 1 of the C_{Ed}T process manual:

- A detailed cost estimate,
- A resource loaded (baseline) schedule for execution of the experiment, data analysis, and publication,

Under IER-206, the hardware for the Burnup Credit Critical Experiment will be removed from storage and placed in operation. This is the hardware we used in 2002 to perform the experiments that eventually documented in the International Handbook of Evaluated Criticality Safety Benchmark Experiments [1] as LEU-COMP-THERM-079.

Appendix I is a Gantt chart for the CED-3b, CED-4a, and CED-4b phases of the project. It includes both the resource-loaded schedule as well as the detailed cost estimate for the phases addressed. The overall costs of the three phases are summarized in the table below.

CED Phase	Total Cost	Labor	Procurements	Travel
3b	\$213,682	\$213,682	\$0	\$0
4a	\$113,038	\$113,038	\$0	\$0
4b	\$97,474	\$89,474	\$0	\$8,000

References

1. International Handbook of Evaluated Criticality Safety Benchmark Experiments, NEA/NSC/DOC(95)3, December, 2015.

Appendix I

Gantt Chart for Phases CED-3b through CED-4b for Integral Experiment Request 206

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