



The Deputy Secretary of Energy

Washington, DC 20585

January 19, 2023

MEMORANDUM FOR EVERETT TROLLINGER
FEDERAL PROJECT DIRECTOR
LOS ALAMOS PLUTONIUM PIT PRODUCTION PROJECT-
30 BASE SUBPROJECT

FROM:

DAVID M. TURK

A handwritten signature in black ink that reads "David M. Turk".

SUBJECT:

Approval of Critical Decision-2/3 for the Los Alamos
Plutonium Pit Production Project 30 Base Equipment
Installation Subproject and Approval of Project Execution Plan

As Chief Executive for Project Management, I approve Critical Decision (CD)-2/3, *Approve Performance Baseline/Approve Start of Construction*, for the Los Alamos Plutonium Pit Production Project (LAP4) 30 Base (30B) Equipment Installation subproject at the Los Alamos National Laboratory (LANL) with a Total Project Cost (TPC) of \$1,864 million and a CD-4, *Approve Start of Operations or Project Completion*, date of August 2030. This decision, which is supported by the Energy Systems Acquisition Advisory Board meeting on January 19, 2023, will improve LANL's pit manufacturing capability that underpins the *Integrated Strategy for Plutonium Missions* (LA-CP-20-20372) strategic plan at LANL. The details of my approval are outlined below.

Scope: Design, procure, install, commission, turnover to operations, and equipment hot testing to support 30 pits per year (PPY) production capabilities in Plutonium Facility (PF)-4

TPC: \$1,864 million (85 percent confidence level)

CD-4A, *Approve Start of Operations or Project Completion*, Date: December 2028 (85 percent confidence level)

CD-4, *Approve Start of Operation or Project Completion*, Date: August 2030 (85 percent confidence level)

Key Performance Parameters (KPP): The Performance Baseline is based upon achievement of the following KPPs:

- **KPP-1.** Complete turnover to operations and equipment hot testing (as applicable) of the minimum equipment necessary to provide 30 war reserve PPY

- **KPP-2.** Complete turnover to operations and equipment hot testing (as applicable) of the remaining equipment to support 30 war reserve PPY with moderate confidence

Funding Profile: The funding profile in support of the LAP4 30B subproject is shown below.

| (\$M) | Prior | FY23 | FY24 | FY25 | FY26 | FY27 | FY28 | FY29 | FY30 | Total |
|-----------------|-------|-------|-------|-------|-------|------|------|------|------|---------|
| Funding Profile | \$364 | \$266 | \$415 | \$470 | \$253 | \$96 | \$0 | \$0 | \$0 | \$1,864 |

My approval of CD-2/3, *Approve Performance Baseline/Approve Start of Construction*, for the LAP4 30B subproject is subject to the following:

- The External Independent Review corrective actions will be completed in accordance with the approved corrective action plan

I also approve the Project Execution Plan.

cc:

J. Hruby, NA-1
M. Adams, NA-10
K. Sheely, NA-90
F. Lowery, NA-MB-1
T. Fisher, NA-GC-1
W. Pevey, NA-1.3
D. Sigg, NA-ESH
B. Tannenbaum, NA-CI
B. Cox, NA-PA
K. Hamilton, NA-90
M. Edelson, NA-92
R. Person, NA-92
T. Wean, NA-922
D. Gezelle, NA-MB-51
L. Alexander, NA-GC-10
P. Bosco, PM-1
C. Donohue, PM-20