



# **Completion of Milestone M3CT-21IN0702028 - Receive Welding Module from IFE (Halden, Norway)**

December 2021

*Changing the World's Energy Future*

Joe Palmer



*INL is a U.S. Department of Energy National Laboratory operated by Battelle Energy Alliance, LLC*

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**Joe Palmer**

**December 2021**

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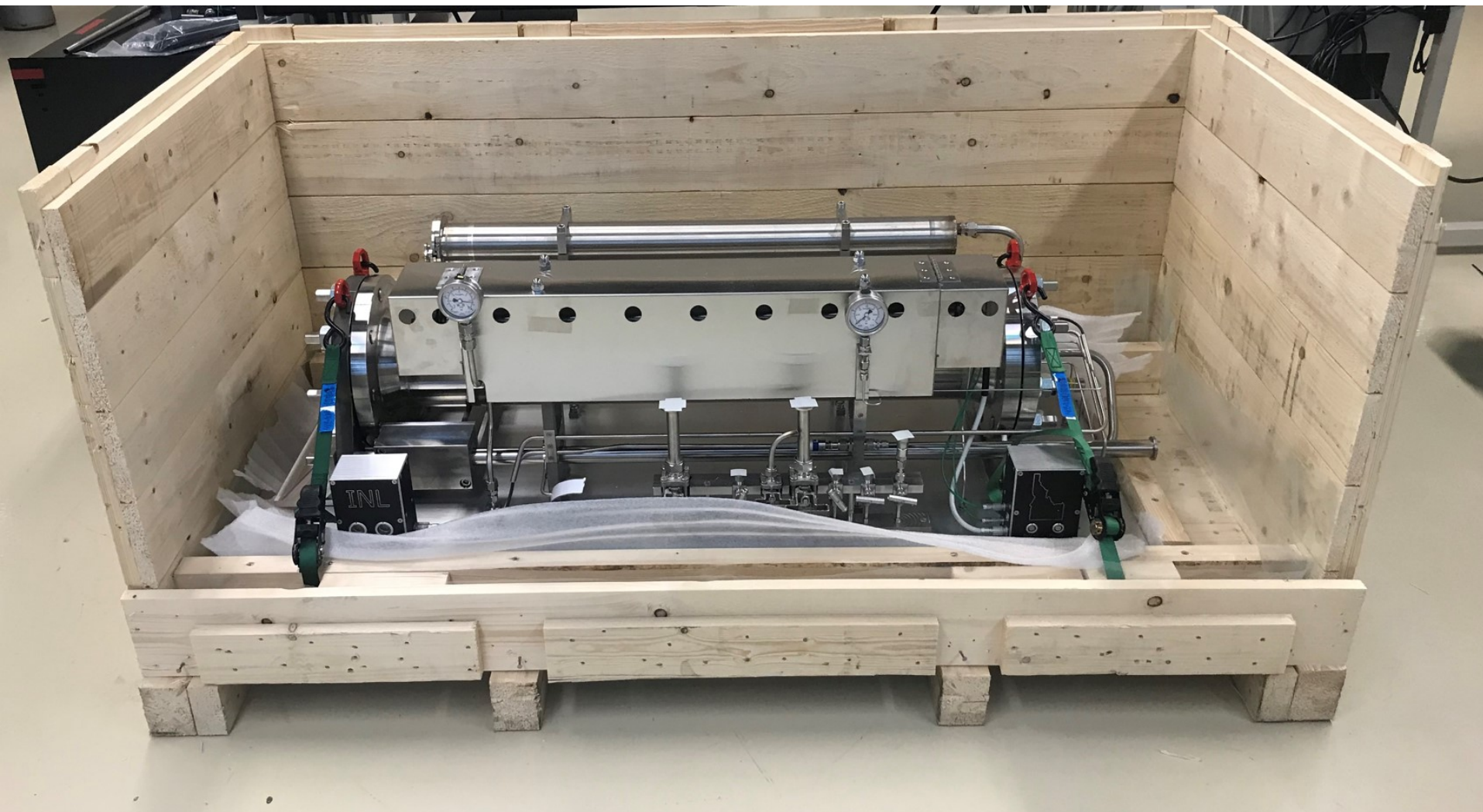
December 15, 2021

**Completion of M3CT-21IN0702028:**  
*Receive welding module for the re-instrumentation facility procured from the Institute For Energy (Halden, Norway) at Idaho National Laboratory*

## Significance of achieving this milestone:

- Prior to 2018, the U.S. DOE and the commercial nuclear industry relied upon the Halden Reactor Project's capability to refabricate and reinstrument previously irradiated fuel rods. This capability has now been lost.
- This activity is key to recovering that capability and enabling the continuation of critical research on commercial and advanced LWR fuels.
- This is part of a broader effort to transfer the expertise developed at Halden to other irradiation facilities such as TREAT and ATR.

## Welding module being uncrated



**Completion of M3CT-21IN0702028**

IDAHO NATIONAL LABORATORY

# The welding module was received on 12/13/2021

- This welding module completes the three-module suite the Institute For Energy (IFE) was contracted to deliver to INL.
- This equipment will be used in FY22 to practice techniques developed at IFE for refabricating and instrumenting prototypical fuel rods.
- INL will use this equipment suite to produce an instrumented fuel rodlet prototype.

# Look ahead

**This milestone consisted of receiving the welding module at INL. A follow-on milestone, M3CT-22IN0702086, due 9/30/2022, will be met by using the defueling, drilling and welding modules to produce an instrumented fuel rodlet prototype using ceramic surrogate pellets in place of UO<sub>2</sub>.**