



NNSA Mo-99 Program Update

NNSA Mo-99 Stakeholder Meeting

May 2018

— PERMANENT THREAT REDUCTION —



**MATERIAL MANAGEMENT
AND MINIMIZATION**

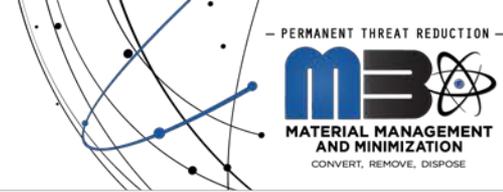
CONVERT, REMOVE, DISPOSE

FY 2018 Omnibus Appropriations Bill



The agreement provides \$92,000,000 for activities that support nuclear material minimization in civilian applications. Within this amount, \$15,000,000 is provided for technical support of global and industry partners that are seeking to minimize the use of highly-enriched uranium in the production of Mo-99, \$19,600,000 is provided to fully fund the remaining costs of the existing cooperative agreements for commercial Mo-99 production, and \$40,000,000 is provided for a new funding opportunity to be competitively awarded and open to both new and existing cooperative agreement partners in order to expedite the establishment of a stable domestic source of Mo-99. The NNSA shall ensure that its programmatic strategies are focused on expediting the delivery of a secure domestic supply of this critical medical isotope, to include making financial contributions on a timely basis. The agreement includes no further direction on the Mo-99 program.

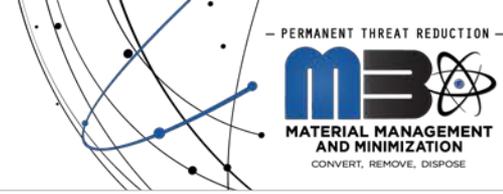
Existing Cooperative Agreement Partners



	Neutron Capture Technology	Accelerator Technology	Accelerator with LEU Fission Technology	LEU Target Technology
Company	NorthStar Medical Radioisotopes	NorthStar Medical Radioisotopes	SHINE Medical Technologies	General Atomics
Awarded	\$25 million	\$25 million	\$25 million	\$25 million
Funded to Date	\$25 million	~\$15 million	~\$22 million	~\$21 million
Anticipated Market Entry*	First half 2018	End of 2019	2020	N/A - Project terminated in April 2018

*Defined as beginning production ~100 6-day Ci per week and increasing to 3,000 6-day Ci per week.

National Laboratory Support



The FY 2018 Omnibus also doubled NNSA's budget for lab support.

NNSA will be able to expand efforts to ensure the expertise of the U.S. National Laboratories are available to:

- Support technical development of the Mo-99 cooperative agreement technical pathways as well as other potential technologies
- Ensure the expertise and equipment at the national laboratories is available to support the acceleration of commercial projects using non-HEU technologies
- All work packages funded by NNSA outside the cooperative agreement funding and results are available in the public-domain



Target Holder for eMo-100 accelerator production (ANL/LANL)

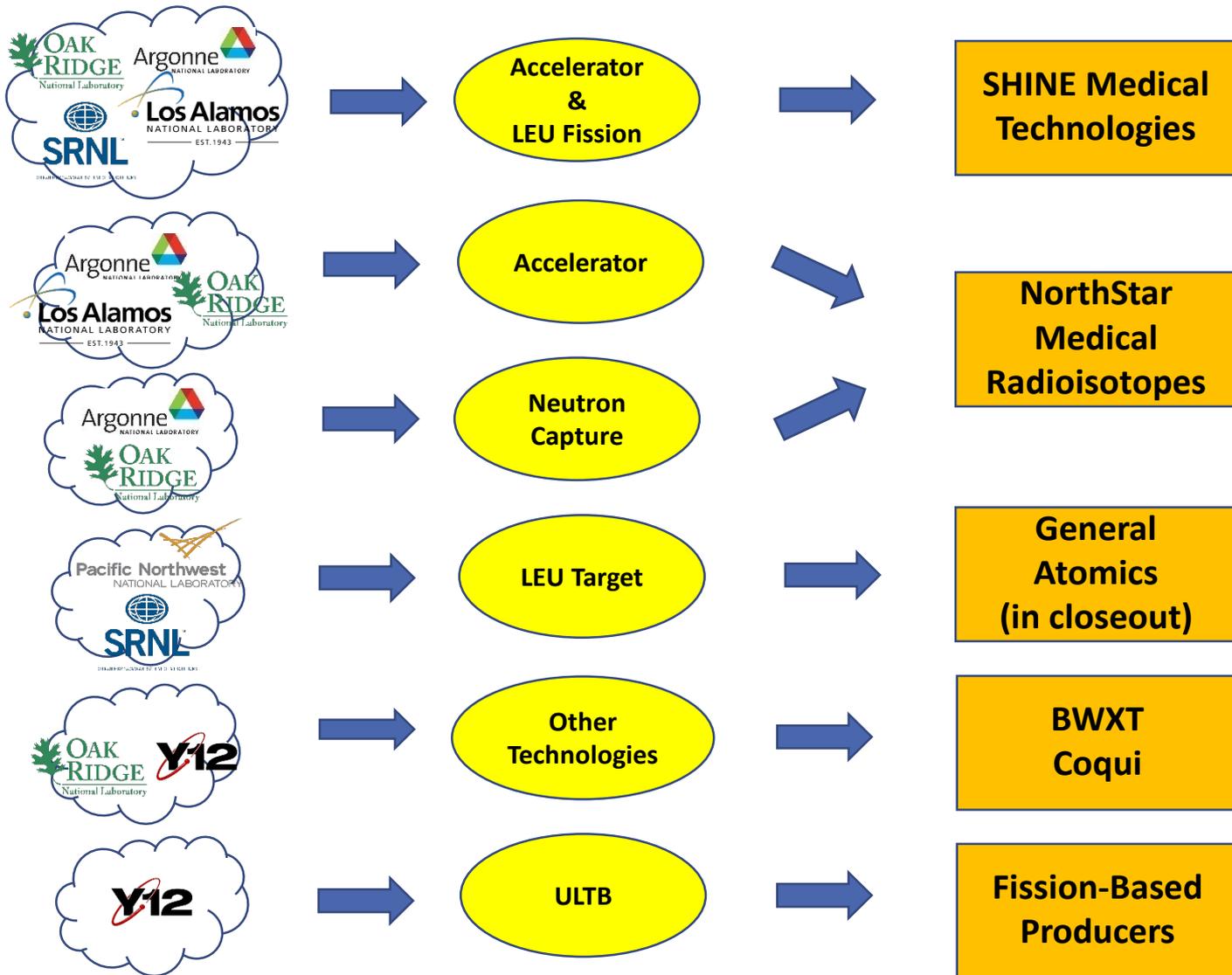


Target assembly for eMo-100 accelerator production (LANL)



Electron Linear Accelerator Facility (ANL)

National Laboratories Matrix



FY 2018 Funding Opportunity Announcement



NNSA has started drafting the new Funding Opportunity Announcement (FOA) for the additional \$40M

- FOA will be published in the July timeframe
- Applications will be due 30 days after issuance of FOA
- Cooperative Agreements (CA's) will be awarded on a 50/50 Federal/non-Federal cost sharing basis
- Up to 4 Awards for \$10M each
- Each applicant will need to demonstrate its ability to scale up to commercial production of Mo-99 and the ability to produce 3,000 6-day curies of Mo-99 per week
- Detailed eligibility requirements will be published in the FOA
- All applicants that submit completed applications in accordance with the FOA criteria in the FOA will be notified and their applications will be forwarded for merit review
- Anticipate beginning negotiations for award in the January 2019 timeframe

FOA Application Process



The FOA will be published in Fed Connect and the FOA Summary will be published in Fed Biz Ops.
All applications **MUST** be submitted electronically through Grants.gov

Applicants **MUST** register on the following websites:

GRANTS.GOV

<https://www.grants.gov>

FEDCONNECT

<https://www.fedconnect.net>

Note: Registration process can take a few weeks so prospective applicants are urged to register as soon as possible.

Questions??

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