

EXPRESSION OF INTEREST OBJECTIVE

Consolidated Nuclear Security, LLC (CNS), acting under Prime Contract DE-NA-0001942 with the U.S. Department of Energy/National Nuclear Security Administration (DOE/NNSA), seeks expression of interest from parties capable of converting enriched lithium chloride (${}^6\text{LiCl}$) and enriched lithium hydride (${}^6\text{LiH}$) to lithium metal (${}^6\text{Li}$). The expression of interest is solely for informational, market research, and planning purposes. Costs associated with preparation of the expression of interest are the sole responsibility of the responder.

After reviewing the level of interest, CNS will develop an acquisition strategy that meets the needs of CNS and DOE/NNSA. A solicitation has not been developed; therefore, do not request a copy of the solicitation. This is NOT an invitation for bid (IFB) or request for proposal (RFP) and does not constitute any commitment by CNS to issue any solicitation. All interested firms must respond to future solicitation announcements separately from responses to this expression of interest.

DESCRIPTION OF REQUIREMENT:

Should CNS, in agreement with DOE/NNSA, elect to issue a solicitation that may lead to a business transaction, CNS intends to require qualified interested parties to demonstrate that they would be able to accept or meet the following likely conditions and restrictions:

- Processing of CNS lithium in any form must be done in the United States.
- Lithium to be processed will be transported to/from the processing site by CNS.
- CNS lithium must remain physically separate from other lithium processes in a manner that precludes cross-contamination.
- Appropriate quality programs, physical security programs, and inventory controls will be required.
- Lithium metal will be analyzed for impurities and must meet a proprietary chemistry specification.
- All lithium must be returned to CNS at the end of the performance period.
- The conversion is planned in the following annual increments:
 1. 2018 - convert 50,000 kg purified ${}^6\text{LiCl}$ to ${}^6\text{Li}$ metal
 2. 2019 - convert 50,000 kg impure ${}^6\text{LiCl}$ to ${}^6\text{Li}$ metal
 3. 2020 through 2022 - convert 2000 kg ${}^6\text{LiH}$ to ${}^6\text{Li}$ metal per year

RESPONSE INSTRUCTIONS:

Responses must be submitted to:

Consolidated Nuclear Security, LLC
ATTN: Angela Bryant
PO BOX 2009 MS6501
OAK RIDGE, TN 37831-6501

Respondents must complete and submit their written responses no later than July 27, 2016 in white paper format on 8.5" x 11", font size 11 or 12 point, single-sided, and not more than 20 pages in length. The total page count includes all information provided (i.e., graphs, technical, etc.). Proprietary information shall be clearly identified and all information marked PROPRIETARY will be handled accordingly. CNS shall not be liable for or suffer any consequential damages for any proprietary information not properly identified.

Responses to this EOI will not be returned and will become the property of CNS. CNS will only entertain written communication; no verbal communications will be accepted. Responses to this notice are NOT offers and CANNOT be accepted by CNS to form a binding agreement.

Interested parties should respond to this announcement by providing a written expression of interest which includes the following information:

- Company name
- Company address
- Type of business
- Single point of contact with contact information (phone number and e-mail)
- Response should also include the following:
 1. Describe the firm **experience** in chemical processing of lithium or similar materials (including years and scale of any operations).
 2. Describe any outsourcing necessary to complete the processing.
 3. Describe any **equipment or facilities** that your firm has or would need to acquire to complete this scope. For existing equipment or facilities, please detail the age and current condition. For needed equipment or facilities, please estimate what would be required (cost, schedule) to obtain.
 4. Describe any **permits and licenses** that your firm has or would need to acquire to complete this scope. For existing permits and licenses, please detail the type, purpose, valid dates, and issuing organization. For needed permits and licenses, please estimate what would be required (cost, schedule) to obtain.
 5. If the proposed schedule cannot be met, estimate the **schedule** (earliest and optimum).
 6. Describe your preferred **contract type** and agreement terms.