

**NUCLEAR REGULATORY COMMISSION**

**[Docket No. 50-264; NRC-2012-0026]**

**Dow Chemical Company, Dow TRIGA Research Reactor**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** License renewal; notice of issuance.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) has issued Renewed Facility Operating License No. R-108, held by the Dow Chemical Company. The renewed license would authorize the Dow Chemical Company to operate the Dow TRIGA (Training, Research, Isotope Production, General Atomics) Research Reactor (DTRR), for 20 years from its date of issuance.

**DATES:** The issuance date of Renewed Facility Operating License No. R-108 is June 18, 2014.

**ADDRESSES:** Please refer to Docket ID NRC-2012-0026 when contacting the NRC about the availability of information regarding this document. You may obtain publicly-available information related to this document using any of the following methods:

- **Federal Rulemaking Web site:** Go to <http://www.regulations.gov> and search for Docket ID NRC-2012-0026. Address questions about NRC dockets to Carol Gallagher; telephone: 301-287-3422; e-mail: [Carol.Gallagher@nrc.gov](mailto:Carol.Gallagher@nrc.gov). For technical questions, contact

the individuals listed in the FOR FURTHER INFORMATION CONTACT section of this document.

- **NRC's Agencywide Documents Access and Management System (ADAMS):**

You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "[ADAMS Public Documents](#)" and then select "[Begin Web-based ADAMS Search](#)." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). For the convenience of the reader, the ADAMS Accession Numbers for the application for renewal are provided in a table in the "Availability of Documents" section of this document.

- **NRC's PDR:** You may examine and purchase copies of public documents at the NRC's PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

### **Availability of Documents**

License renewal application and supplemental documents:

April 1, 2009	ML092150443
September 24, 2010	ML102720859
January 12, 2011	ML110130501
February 11, 2011	ML110490391
April 20, 2011	ML113460120
May 12, 2011	ML11136A229
May 27, 2011	ML112150327
August 12, 2011	ML11228A116
August 31, 2011	ML11249A043
October 12, 2011	ML112930035

November 10, 2011	ML113410168
December 6, 2011	ML113460038
January 13, 2012	ML12019A007
January 20, 2012	ML12026A152 (attachment 1) ML12025A089 (attachment 2)
February 7, 2012	ML12040A128
June 11, 2012	ML12164A784
August 10, 2012	ML12226A401
July 11, 2013	ML13196A299
September 16, 2013	ML13261A026
April 9, 2014	ML14100A349

Licensee's annual reports for years ending:

2005	ML061010776
2006	ML070920302
2007	ML080790521
2008	ML090720161
2009	ML100490399
2010	ML110680094
2011	ML12066A128
2012	ML13059A459
2013	ML14070A179

**FOR FURTHER INFORMATION CONTACT:** Geoffrey Wertz, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-0893; e-mail: [Geoffrey.Wertz@nrc.gov](mailto:Geoffrey.Wertz@nrc.gov).

**SUPPLEMENTARY INFORMATION:**

The NRC has issued Renewed Facility Operating License No. R-108, held by the Dow Chemical Company, which authorizes continued operation of the Dow TRIGA (Training, Research, Isotope Production, General Atomics) Research Reactor (DTRR), located in Midland, Michigan. The DTRR is a pool-type, natural convection, light-water cooled, and shielded reactor. The DTRR is licensed to operate at a steady-state thermal power level of 300 kilowatts. The Renewed Facility Operating License No. R-108 will expire 20 years from its date of issuance.

The renewed facility operating license complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in Title 10, Chapter 1, of the *Code of Federal Regulations*, and sets forth those findings in the renewed facility operating license. The agency afforded an opportunity for hearing in the Notice of Opportunity for Hearing published in the *Federal Register* on February 13, 2012 (77 FR 7613-7618). The NRC received no request for a hearing or petition for leave to intervene following the notice.

The NRC staff prepared a safety evaluation report for the renewal of Facility Operating License No. R-108 and concluded, based on that evaluation, the licensee can continue to operate the facility without endangering the health and safety of the public. The NRC staff also prepared an Environmental Assessment and Finding of No Significant Impact for the renewal of the facility operating license, noticed in the *Federal Register* on July 20, 2012 (77 FR 42771-42774), as supplemented on May 8, 2013 (78 FR 26811-26812), and concluded that renewal of the facility operating license will not have a significant impact on the quality of the human environment.

Dated at Rockville, Maryland, this 19 day of June 2014.

For the Nuclear Regulatory Commission.

**/RA/**

Linh N. Tran, Acting Chief  
Research and Test Reactors Licensing Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation.