Montana Department of Environmental Quality
Waste Management and Remediation Division
Tanks, Brownfields and Federal Facilities Bureau
Underground Storage Tank Section
PO Box 200901
Helena, MT 59620-0901

TO: Applicants of a Proposed New Underground Storage Tank (UST) Facility Construction Permit

The Montana Department of Environmental Quality (DEQ) implements the Underground Storage Tank Act of Montana, overseeing the installation of USTs. USTs are defined in section 75.11.503(8), Montana Code Annotated (MCA). DEQ has authority to analyze if the proposed UST installation meets the criteria for approval. The criteria are that the installation complies with applicable statutes and rules and that it is conducted in such a place and manner as to protect the environment and the public's health, welfare and safety (ARM 17.56.1305).

The enclosed application is for a proposed new Underground Storage Tank (UST) facility construction permit. Please fill out the entirety of the application. If a question is not applicable, please indicate that with "N/A". Ensure that all contact information is current and that at least one person is appointed as the primary point of contact. Clearly label all the attachments and indicate the applicable attachment (include title, section, page number, etc. as appropriate) within the application form in the boxes provided. A checklist is provided on the last page to facilitate a thorough review prior to submittal.

Unless all the necessary attachments are included and clearly labeled, the application will be considered incomplete. If all required documentation is not provided or additional information is needed, the DEQ UST Program will notify the primary point of contact with a "Notice of Deficiency - Request for More Information" via email that will specify the additional information required.

Once the permit is determined to be complete, DEQ will begin the review process. In accordance with requirements of the Montana Environmental Policy Act, for the installation of USTs at a new facility DEQ must prepare an environmental review through completion of either an Environmental Assessment (EA) or Environmental Impact Statement (EIS). Because potential impacts resulting from tank installations are similar across Montana, DEQ has developed a Programmatic EA to examine the proposed action, alternatives, and analyze potential environmental impacts common to most tank installations. Through the review of the application, DEQ will determine if the proposed facility is within the bounds of the Programmatic EA or will require additional environmental review based on consideration of the criteria set forth in the Administrative Rules of Montana (ARM) 17.4.608.

If the facility is within the bounds of the Programmatic EA and the requirements of the Underground Storage Tank Act of Montana, DEQ will publish the new UST facility permit application, supporting documents, and the Programmatic EA to the DEQ Public Participation website. The Department will accept public comments on the proposed project for a period of at least 10 days. At the close of the comment period, comments that were received are reviewed and a final permitting decision is made. The decision may be to approve the permit request, deny the request, or request additional information in order to respond to comments.

The permitting of a new UST system is not a quick and easy process. Be prepared for this process to take time to work through the various stages involved. Please contact the DEQ UST Program with any questions or concerns regarding the construction permit application requirements or UST installation requirements at: dequstprogram@mt.gov or 406-444-5300. We look forward to working with you.

NEW UNDERGROUND STORAGE TANK FACILITY PERMIT APPLICATION

I. Owner Information

Name | Primary Point of Contact? Yes ☐ No ☐

Company

Street Address | City | State | Zip Code

Mailing Address | City | State | Zip Code

Email | Phone

Attach a copy of the deed or other proof of ownership.

Attachment:

II. Operator Information

Name | Primary Point of Contact? Yes ☐ No ☐

Company

Street Address | City | State | Zip Code

Mailing Address | City | State | Zip Code

Email | Phone

III. UST Installer Information

Name | Primary Point of Contact? Yes ☐ No ☐

Company

Street Address | City | State | Zip Code

Mailing Address | City | State | Zip Code

Email | Phone

Montana Installer License No

Estimated Construction Start Date | Estimated Construction End Date

Hours of Construction Operations | Number of Personnel Onsite

List Heavy Equipment Planned for Use

Clear Form

IV. Facility Information

Facility Name | Facility Type

Street Address | City | State | Zip Code

Latitude | Longitude | Facility Email

Legal Location Description

UST System Total Acres (tank basin only)

Will the facility have trained Class A, Class B, and Class C Operators? Yes ☐ No ☐

Assigned Class A, Class B, and Class C Operators are required before a Conditional Operating Permit will be issued.

V. Benefits Statement

How have the public been informed and involved in the proposed project?

How would the public benefit from the proposed project? Who will the project benefit?

VI. Local Permitting and Approvals

Which City permits have been issued for the facility?

☐ Zoning ☐ Sanitation ☐ Water ☐ Building ☐ Electrical ☐ Traffic ☐ Environmental

Which County permits have been issued for the facility?

☐ Zoning ☐ Sanitation ☐ Water ☐ Building ☐ Electrical ☐ Traffic ☐ Environmental

Provide copies of all County and/or City permits that have been issued to the project.

Attachment:

Provide copies of all State permits that have been issued to the project.

Attachment:

VII. UST Mechanical Information

*For underground storage tanks that are compartmented, please use subsequent tank numbering **for each compartment.** Tank and piping systems must be double-walled, continuously monitored via tank annular space sensors and liquid-tight containment sumps with sensors in all sumps. All installations must comply with State of Montana Underground Storage Tank Critical Installation Requirements (April 2024).*

Tank No:

Is the tank above ground? Yes ☐ No ☐

Tank Capacity (gallons)

Substance Stored

Tank Construction Type

Tank Manufacturer

Spill Prevention Method

Primary Overfill Prevention Method — Make & Model

Secondary Overfill Prevention Method — Make & Model

Primary Leak Detection Method — Make & Model

Secondary Leak Detection Method — Make & Model

Additional Leak Detection Method — Make & Model

STAGE 1 VAPOR RECOVERY *Required for all gasoline tanks.*

Containment Device Model

Pressure Vacuum Vent Cap Model

Piping No:

Is the piping above ground? ☐ Yes ☐ No Remote Fill? ☐ Yes ☐ No

Piping Material

Manufacturer — Model Number

Piping Type — Piping Diameter

Product Piping Run Length(ft) — STP Make & Model

Vent Piping Run Length(ft)

Primary Piping Leak Detection Method

Secondary Piping Leak Detection Method

Additional Piping Leak Detection Method

Catastrophic Piping Leak Detection Method

Vent Pipe Material

Vent Pipe Diameter

Add a Tank

Remove a Tank

VIII. BUOYANCY FLOAT OUT CALCULATIONS:

Calculations must be completed within the following parameters: 1) tank empty 2) water to the top of the tank or higher (grade level etc.) 3) without secondary anchorage system installed. If the safety factor is greater than 1.20 to 1 then the secondary anchorage system installation is optional but recommended and corrosion protection via sacrificial anodes of the secondary anchorage system is not required. If obtaining a safety factor of 1.20 to 1 or greater requires the secondary anchorage system to be installed, then a secondary anchorage system on the tank must be installed and a corrosion protection design for the secondary anchorage system is required. Tank secondary anchoring must be installed per PEI/RP100. Tank anchoring calculations are to be performed by the tank manufacturer or a qualified individual.

i. Attach the Buoyancy Float Out Calculations. **Attachment:**

ii. Will Secondary Anchorage Corrosion Protection be installed? ☐ Yes ☐ No

   a. If yes, attach a corrosion protection design plan for the secondary anchorage system.
   The corrosion protection design must include testing ports allowing access to the secondary anchorage protection system for triennial testing. All anchors must be coated with STI approved coating. If tank deadman are used for float-out prevention they must have cathodic protection installed.

   Attachment:

IX. SITE PLANS

Attach the following site plans to the application. Ensure that all documents are clearly legible and include a title, author(s), a relevant legend and labels, a north arrow, and a scale. Indicate the document name and location (ex. Detail UST System Layout, Appendix A, Section 2) for each attached site plan or map.

i. Overview map showing location of proposed facility, including current major site features, on-site roadways, parking, proposed buildings, tank basin location and adjacent property lines, residential and commercial use buildings.

ii. Detail UST system tank layout showing proposed UST basin, vents, tank risers, leak detection monitoring equipment, sumps, and corrosion protection equipment.

iii. Detail UST system piping layout showing proposed locations of product piping, leak detection monitoring equipment, corrosion protection equipment, flex connectors, check valves, solenoid valves, sensor locations, pipe cross-sections and slope, and dispenser locations.

iv. Detail UST system tank basin cross section (include anchoring details).

IX. Environmental Information

Attach the following site maps to the application. Ensure that all maps are clearly legible and include a title, author(s), a relevant legend and labels, a north arrow, and a scale. Indicate the attachment name and location (ex. Surface Water Features, Appendix B, Section 3) for each site map. For useful tips on creating a map visit: gis.com/en/pro-app/latest/get-started/add-maps-to-a-layout.htm.

Water Quality, Quantity and Distribution

i. Surface Water and Wetlands

The following links may be helpful:
https://mtnhp.org/nwi/
https://edits.nationalmap.gov/apps/gaz-domestic/public

a. Identify all surface water features, including wetlands, springs, and natural drainages (natural and man-made) within 1000 feet of the proposed UST system. Attach a map (or maps) showing all surface water features within 1000 feet of the proposed system.
Attachment:

ii. Public and Private Water Wells

The following link may be helpful: https://mbmggwic.mtech.edu

a. Identify all water supply wells within 1000 feet of the proposed UST system. Attach a map showing all of the wells and indicate the direction of groundwater flow. Note the groundwater flow direction, and how it was determined, if assumed, or measured.
Attachment:

b. Attach copies of well logs within 1000 feet of the proposed UST system.
Attachment:

c. From available data, what is the approximate depth to ground water?

d. In an attachment to this application, list all wells and surface water features within 1000 feet of the proposed project and evaluate long-term protection of human health and safety, based on site-specific details. For example, if groundwater flow is away from the well, that would be discussed, as well as current use of the well(s) and anticipated future use.
Attachment:

iii. Floodplain

The following link may be helpful: https://msc.fema.gov/portal

a. Is the site within a 100-year floodplain? If so, attach a copy of the floodplain map. Floodplain maps are maintained by the City or County and the Federal Emergency Management Agency.
Attachment:

iv. Sump Testing Water Disposal

The following link may be helpful:
https://www.epa.gov/ust/underground-storage-tank-technical-compendium-about-2015-ust-regulation

a. Will disposal of water used for containment sump testing follow applicable UST Sump Water Characterization and Disposal regulations? Yes ☐ No ☐

Geology and Topography

i. Describe the geology of the area to a depth of 10-20 feet below the proposed UST system.

a. Attach a geologic map of the geological composition for at least a 1000 foot radius.

The following link may be helpful:
https://gis-data-hub-mbmg.hub.arcgis.com
Attachment:

ii. Describe the topography of the area of the proposed UST system.

a. Attach a topographic map of the area of the proposed UST system.

The following link may be helpful:
https://www.usgs.gov/programs/national-geospatial-program/national-map
Attachment:

Soil, Sediment and Erosion

i. Describe the soil type in the area of the proposed UST system.

a. Attach a map showing all soil types within 1000 feet of the proposed system.

The following link may be helpful:
https://casoilresource.lawr.ucdavis.edu/gmap/
Attachment:

ii. Attach a copy of the MT DEQ Montana Pollution Discharge Elimination System (MPDES) permit.

Attachment:

iii. Was a Geotechnical Survey conducted? If so, please attach the report.

Attachment:

Air Quality

i. Vapor Intrusion

a. Describe the risk to indoor air in the case of a petroleum release. For example, what is depth to groundwater, groundwater flow direction, soil type, and are any preferential pathways present?

The following link may be helpful:
https://www.epa.gov/ust/petroleum-vapor-intrusion

Air Quality Continued

b. Attach a map that shows the location of the proposed tank basin in relation to buildings and structures within 500 feet. Identify any structures and their use. Are they residential, commercial, etc.?
Attachment:

c. Do any of the buildings within 500 feet have an impermeable vapor barrier installed? Describe.

ii. Federal Class I Airsheds (National Parks and Wilderness Areas)

a. Use the link to the view the Federal Class I Airshed map. Is the proposed tank basin within 1000 feet of a Class I Airshed?

b. If yes, attach the map, and describe measures in place to prevent vapor releases from the UST system. *The following links may be helpful:*
https://www.epa.gov/visibility/list-areas-protected-regional-haze-program
https://epa.maps.arcgis.com/home/webmap/viewer.html
Attachment:

Sensitive Threatened and Endangered Plant and Animal Species

i. Sensitive, Threatened, and Endangered Species and Habitats

a. The Montana Natural Heritage Program maintains a database of sensitive, threatened, and endangered animal species and habitats. Identify species of concern or habitats within 1000 feet of the proposed UST system. Attach a list of species identified by the MTNHP search.
The *following link may be helpful:*
https://mtnhp.org
Attachment:

b. Is the proposed site located in a Greater Sage Grouse Core Habitat Area or Connectivity Area? If so, submit a development project to the DNRC Sage Grouse Habitat Conservation Program for consultation. Attach the letter and supporting documentation provided by the Sage Grouse Conservation Program.
The following link may be helpful:
https://sagegrouse.mt.gov/
Attachment:

ii. Sensitive and Threatened Vegetation

a. The Montana Natural Heritage Program maintains a database of plant species ranked from 1 to 5 in degree of risk to the species' viability. Use the link to view the MTNHP database and online map and identify species of concern or habitats within 1000 feet of the proposed UST system. Attach a list of species identified by the MTNHP search.
The following link may be helpful:
https://mtnhp.org
Attachment:

Archaeological Resources

i. The Montana Historical Society maintains a database of archaeological or historic sites that have been recorded. Consultation with the State Historical Preservation Office (SHPO) is required to ensure adherence to the State Antiquities Act and the National Historic Preservation Act. Use the link for instructions to request a file search from SHPO and attach the information provided.

The following link may be helpful:
https://mhs.mt.gov/Shpo/index2
Attachment:

X. Human Environment Information

Answer the following questions on potential impacts to the human environment, the people, the culture, and the lifestyle for those who reside near the proposed UST installation.

Population

i. What is the population of the County and/or the nearest city to the proposed UST system? Use the current population from the most recent US Census.

The following link may be helpful:
https://ceic.mt.gov/People-and-Housing/Population

Past, Current and Future Actions Near the Proposed New UST System

i. Is any portion of a public water, wastewater or sewage system (including stormwater drains) located within 1000 feet of the proposed tank or piping locations?

ii. Is any portion of a remediation site or activity (past, present or known future plans) located within 1000 feet of the proposed tank or piping locations?

The following link may be helpful:
https://deq.mt.gov/about/public-records

Public Land, Parks, and Designated Wilderness

i. Are there any public lands, parks or wilderness areas in the area of the proposed UST system installation? If so, how will the installation affect access to these areas?

Socioconomic Impacts

i. Describe any economic benefits of the proposed UST system installation. Will tax revenue be generated or jobs be created during the installation of the proposed UST system?

ii. Is installation of the UST system expected to affect the population or require additional housing or disrupt native or traditional communities?

iii. Are any additional government services expected to be needed during installation work?

Health and Safety Plan

i. Describe health and safety measures that would be implemented to reduce health and safety risks to the public and construction workers (including daily equipment inspections) during the installation of the proposed UST system.

ii. How would miscellaneous and hazardous waste (including grease and oil) be managed during the proposed UST installation? Will trained individuals and spill kits and absorbent pads be on-site?

iii. How would waste and sediment (stormwater runoff) from construction activities be prevented from entering nearby waterways, including stormwater drains, lakes, rivers, irrigation canals, etc.?

iv. Describe policies and procedures in place that would minimize airborne dust from the installation of the proposed UST system and prevent exposure to workers and dust impacts off-site.

Submittal Checklist:

Ensure all attachments requested in this application and listed below are included with the submittal. Additional forms required include the Major Installation Permit Application and the UST Notification Form. Submit forms and attachments along with permit review fees to: dequstprogram@mt.gov.

- ☐ Proof of Landownership or Lease
- ☐ County and City Permits
- ☐ State Permits
- ☐ Tank Buoyancy Float Out Calculations
- ☐ Overview Site Map
- ☐ Detail UST system Layout
- ☐ Detail Piping Layout
- ☐ UST System Cross-Section
- ☐ Map of Surface Water Features
- ☐ Map of Water Supply Wells
- ☐ Well Logs and Water Protection Evaluation
- ☐ Topographic Map
- ☐ Soil Type Map
- ☐ Geotechnical Survey (if available)
- ☐ Map of Buildings within 500 feet
- ☐ Federal Class I Airshed Map
- ☐ Map of Sensitive Animal Species and Habitats
- ☐ DNRC Sage Grouse Program Conservation letter
- ☐ Map of Sensitive Plant Species and Habitats
- ☐ SHPO Consultation and Approval Letter

XI. Certification and Signatures

By signing below I certify that I am the party responsible for operation of this proposed facility and the above-described underground storage tank system will be constructed and operated in accordance with Sections 75-11, Parts 2 and 5, Montana Code Annotated (MCA), the rules adopted pursuant thereto, and in accordance with conditions which have or may be imposed on the licensed UST Installer.

Signature:

Title/Position

Print Name

Date

I am the (Select a box):

- ☐ Owner
- ☐ Representative of the Owner
- ☐ Licensed UST Installer
- ☐ Representative of the Licensed Installer