

Oklahoma Hydrogen Permitting Flow Chart

1. Preconstruction

- Water quantity, **OWRB**⁵
- 404/401 Dredge & Fill permits, **USACE/DEQ**²
- Waste Load Allocation study, **DEQ**²
- Water storage/Dam safety, **OWRB**⁵
- Pipeline Operating ID, **OCC**⁷/**PHMSA**
- Environmental (endangered species)
U.S. Fish & Wildlife (as applicable)
- National Fire Protection Association (NFPA 2)
Hydrogen Technologies Code for filling stations, **ODOL**¹⁰

2. Construction

- Air Quality, **DEQ**¹
- Stormwater, **DEQ**^{2,3}
- UIC Class VI construction, **EPA** (in coordination with **DEQ**⁴/**OCC**⁸)
- UIC Class I, Class V permits, **DEQ**⁴ (in coordination with **OCC**⁸)
- NFPA 2 Hydrogen Technologies Code, **ODOL**¹⁰
- Integrity/leaks for pressure vessels, construction/manufacturing standards (ASME), **ODOL**¹⁰
- Exception application for storage, **ODOL**¹⁰

3. Operations

- Air Quality, **DEQ**¹
- Air Quality GHG Part 980, **EPA**
- Equipment leaks, **OCC**⁷ (for pipeline facilities)/**ODOL**¹⁰ (for fill station)/**EPA**¹¹
- OPDES, **DEQ**²
- Industrial stormwater permit, **DEQ**²
- UIC Class VI construction, **EPA** (in coordination with **DEQ**⁴/**OCC**⁸)
- UIC Class I, Class V permits, **DEQ**⁴ (in coordination with **OCC**⁸)
- Solid waste processing facility permits, **DEQ**⁴
- Hazardous waste generator requirements, **DEQ**⁴
- Integrity/leaks for pressure vessels, construction/manufacturing standards (ASME), **ODOL**¹⁰
- Blending H₂/natural gas within the facility operations, **ODOL**¹⁰

4. Hydrogen Storage

- Geologic storage, **DEQ**⁴ (in coordination with **OCC**⁸)
- AST, **ODOL**¹⁰/**DEQ**⁴ (SARA Title 3)
- UST, **ODOL**¹⁰/**DEQ**⁴ (SARA Title 3)
- Horizontal/vertical storage pipes, **ODOL**¹⁰/**DEQ**⁴ (SARA Title 3)

5. Transmission/ Transportation

- Compression prior to transmission, **DEQ**¹/**OCC**⁷/**EPA**¹¹
- Pipeline (dedicated/blending), **OCC**⁷/**PHMSA** (for interstate pipelines)
- Trucks, **U.S.DOT/OCC**⁷/**ODOT/DPS**
- Pipeline leaks, **OCC**⁷/**PHMSA** (for interstate pipelines)

6. Use

- Dispensing H₂ in vehicles, **ODOL**¹⁰
- H₂ infrastructure refueling buildout, **ODOT**

State Agencies

- **DEQ** - Department of Environmental Quality
- **DPS** - Department of Public Safety
- **ODOL** - Department of Labor
- **OCC** - Oklahoma Corporation Commission
- **ODOT** - Oklahoma Department of Transportation
- **OWRB** - Oklahoma Water Resources Board

Federal Agencies

- **EPA** - Environmental Protection Agency
- **PHMSA** - Pipeline and Hazardous Materials Safety Administration
- **USACE** - United States Army Corps of Engineers
- **U.S. DOT** - United States Department of Transportation

¹ Air Quality Division

² Water Quality Division

³ Environmental Complaints and Local Services Division

⁴ Land Protection Division

⁵ Water Rights/Engineering

⁶ Public Utilities Division (PUD)

⁷ Transportation Division

⁸ Oil and Gas Conservation Division

⁹ Petroleum Storage Tank Division

¹⁰ Pressure Vessels/Alternative Fuel

¹¹ Per Section 112r of CAA and 40CFR68

