

Fact Sheet

Your DEQ Online Submittal Guide: Tier 4 Streamlined Data Center Permit

A Tier 4 streamlined data center permit allows data centers with Tier 4-compliant emission controls on their emergency backup engines to use DEQ-approved emission thresholds, tools and emissions factors to help streamline the application process.



Requirements for a Tier 4 streamlined data center permit

1. The facility is a data center with diesel-powered backup emergency engines.
2. All critical-load backup engines are at least EPA Tier 2 certified.
3. Tier 4-compliant controls are installed on all critical-load backup engines.
4. Tier 4-compliant controls are either:
 - a. Selective catalytic reduction, diesel oxidation catalyst, and diesel particulate filter
 - b. Selective catalytic reduction and catalyzed diesel particulate filter
5. Facility-wide hourly emissions during testing and maintenance activities do not exceed a Significant Emission Threshold of 50 lbs/hr for Nitrogen Oxides (NO_x).

[Click here for more information about qualifying requirements.](#)

Applying for a Tier 4 streamlined data center permit in YDO

The process for applying for a Tier 4 streamlined data center permit in Your DEQ online requires three specific submittals. **All three submittals and their fees are required for the Tier 4 streamlined data center permit.**

1. ACDP – Standard or Construction Permit Application submittal

This submittal is required for all new standard ACDP applicants (see [OAR 340-216-0040 – Application Requirements](#)). In addition to the standard requirements, the following information must be included:

1. An attachment with a demonstration of the 50 lbs/hr NO_x SET using a Testing and Maintenance Plan or the equation shown in the permit template.
2. In the "Description of facility and processes" field in the Your DEQ Online submittal, include the phrase "Tier 4 data center"

Fees: Standard permit application fees apply (see [OAR 340-216-8020 Table 2 - Fees](#)).

See [ACDP – Standard and Construction Permit Application Guidance](#) for step-by-step guide instructions.

Translation or other formats

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2. CAO – New/Reconstructed Source Risk Assessment Application submittal

Site specific modeling for CAO is not required with the Tier 4 streamlined data center permit. Instead, facilities can use the [Oregon DEQ Data Center CAO Tool](#) to determine a desired annual and daily fuel limit, and use the fuel limits to generate the Risk Assessment Report and AQ520 within the tool.

Attach the following reports to the submittal in Your DEQ Online:

1. The Risk Assessment Report (generated from the CAO Data Center Tool)
2. The AQ520 Form (generated from the CAO Data Center Tool)
3. A facility layout, including:
 - a. stack and building height
 - b. facility property boundary
 - c. distances to the nearest exposure locations.

Fees: (see [OAR 340-216-8030 Table 3 Fees](#)).

- Cleaner Air Oregon New Source Consulting Fee
- Level 2 Risk Assessment Fee
- Applicable activity fees (i.e., Community Engagement or/and Toxics Lowest Achievable Emission Rate Fee)

Once submitted, CAO staff will review and determine if the CAO Risk Assessment is complete.

See the [CAO New-Reconstructed Source Risk Assessment Application Guidance](#) for step-by-step instructions.

3. ACDP – Criteria Pollutant NAAQS Analysis submittal

Facilities that qualify for the Tier 4 Streamlined Data Center Permit do not need to conduct NAAQS modeling. However, facilities are required to submit the ACDP – Criteria Pollutant NAAQS Analysis for tracking purposes.

The facility must attach the [AQ402 Emission Inventory](#) to the submittal. Once submitted, permitting staff will review and determine if the analysis is complete.

Fees: No modeling review fees apply to this submittal.

See the [ACDP and Title V Criteria Pollutant NAAQS Analysis Guidance](#) for step-by-step instructions.

Questions?

Visit the [Tier 4 Streamlined Data Center Permit Website](#) for more information. The [Air Quality Permit in YDO](#) website has various user guides to help navigate Your DEQ Online.

Contact Tier4DataCenters@deq.oregon.gov for more information.

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