

## Technical Checklist for *Directive 060* – Nonroutine Flaring and Excess Volume Requests

The following outlines the minimum information requirements to be included in a request for nonroutine flaring or excess volume authorization under *Directive 060*. **Failure to include the minimum information will result in immediate closure of the application.**

Application Type	Minimum Documentation
<b><i>Directive 060</i> – Flare Permits and Excess Volume Requests</b>	
Nonroutine well or pipeline flaring/incineration	<ul style="list-style-type: none"> <li>• A cover letter that includes               <ul style="list-style-type: none"> <li>- the applicant's contact information</li> <li>- the type of authorization requested, and</li> <li>- an indication of whether any objections or concerns to the proposed operation exist</li> </ul> </li> <li>• Information on the proposed flaring/incineration activity:               <ul style="list-style-type: none"> <li>- reason for the request (e.g., well testing, completions, pipeline depressurizing)</li> <li>- location</li> <li>- duration</li> <li>- anticipated flow rates</li> <li>- total volume requested</li> <li>- the H<sub>2</sub>S content, supported by the most recent gas analysis or closest offset gas analysis</li> <li>- type of combustion device to be used (e.g., flare or incinerator)</li> <li>- the Lahee classification (for wells only)</li> <li>- related National Topographical System 1:50 000 scale map of the area</li> </ul> </li> <li>• Information on the assessment of effects on ambient air quality, including the results of dispersion modelling for SO<sub>2</sub>:               <ul style="list-style-type: none"> <li>- If the results from the most recent version of AERflare.xls or AERincin.xls indicate AAAQO will not be met, refined dispersion modelling using the most recent version of CALPUFF or AERMOD is required.</li> <li>- When submitting results from CALPUFF or AERMOD, include histograms and contour plots showing exceedances (wind speed, direction, and stability class)</li> </ul> </li> <li>• In situations with the potential to exceed the risk-based criteria for SO<sub>2</sub> set out in section 7.12.4 of <i>Directive 060</i>, information on the licensee's proposed air quality management plan to prevent exceedances is required.</li> <li>• <b>If the volume requested exceeds 200 10<sup>3</sup> m<sup>3</sup> and the operation does not include a multistage fracture</b> include an evaluation of the most feasible option for in-line testing</li> </ul>
Requests to exceed the volume allowance threshold for multistage fracturing (if a pipeline is accessible)	<p>In addition to the requirements for nonroutine well or pipeline flaring/incineration (above), include</p> <ul style="list-style-type: none"> <li>• engineering, economic, and operational information to justify flaring/incinerating volumes in excess of the threshold volume:               <ul style="list-style-type: none"> <li>- an extended gas analysis may be required;                   <ul style="list-style-type: none"> <li>• for example, when requesting excess volume for cleanup of N<sub>2</sub> or CO<sub>2</sub>, an extended analysis is required</li> </ul> </li> <li>- a copy of the tester's notes to date</li> <li>- if multistage fracturing is occurring, include the number of stages and the fracture fluid used</li> </ul> </li> </ul>

	<ul style="list-style-type: none"><li>• if using N<sub>2</sub>, provide the pipeline specs for N<sub>2</sub> if a pipeline is accessible</li></ul>
Requests to exceed the volume allowance threshold for underbalanced drilling	See <i>Directive 060</i> , appendix 5
Requests to exceed the volume allowance threshold for exploratory wells	See <i>Directive 060</i> , appendix 5