

**Response to Public Comments on Draft Regulatory Guide (DG)-1388
“Evaluations of Explosions Postulated to Occur at Nearby Facilities and on
Transportation Routes Near Nuclear Power Plants”
Proposed Regulatory Guide (RG) 1.91, Revision 3**

On August 2nd, 2021, the U.S Nuclear Regulatory Commission (NRC) published a notice in the *Federal Register* (86 FR 41525) that Draft Regulatory Guide, DG-1388, (Proposed Regulatory Guide (RG) 1.91, Revision 3), was available for public comment. The Public Comment period ended on September 1, 2021. The NRC received comments from the organizations and people listed below. The NRC has combined the comments and NRC staff responses in the following table.

1. Carrie Fosaaen, Director Regulatory Affairs NuScale Power LLC 1100 NE Circle Blvd. Suite 200 Corvallis, Oregon 97330 ADAMS Accession No. ML21245A395

Commenter	Section of DG-1388	Specific Comments (These are the full comments as provided in each submission)	NRC Resolution
1. Carrie Fodaaen	Section C, Item 4, pg 10	<p>Position 4 is a new addition for the revised regulatory guide to address thermal effects. However, it is not clear if the thermal effects evaluation is necessary if the risk of damage caused by an explosion at nearby facilities or on a transportation route has already been determined to be sufficiently low based on application of methods in Staff positions 1, 2, or 3.</p> <p>Recommendation -Add guidance to clarify when the thermal effects analysis discussed in Staff position 4 is necessary.</p>	<p>The NRC agreed with the comment and has added the following clarification to Staff Position 4:</p> <p>“The applicant or licensee may also show that the risk is acceptably low on the basis of low probability of explosions and fires. A demonstration that the rate of exposure to a calculated radiative heat flux is less than 1×10^{-6} per year when based on conservative assumptions, or 1×10^{-7} per year when based on realistic assumptions, is acceptable.”</p> <p>No other changes to DG-1388 were necessary due to this comment.</p>