

## 1 PROJECT ACHIEVEMENTS

The project achievements should address the points described below. **This section is typically about 10 pages.** References and visual materials, such as charts, graphs, pictures, etc., are included in the page limit. URLs that provide information related to the application should not be included.

Insert paragraph(s).

### 1.1 Significance of Accomplishments to Date

Explain what advances you accomplished through the INCITE award (impact on community paradigms, valuable insights into or solving a long-standing challenge, etc.). Place the proposed research in the context of competing work in your discipline or business. Reiterate the milestones of your proposal and discuss the accomplishments (planned or unplanned) achieved this year relative to those milestones and allocation use (Section 1a ii). Summarize the impact of the results achieved: What conclusions can be drawn, and what is solved because of these results? What new and follow-on investigations have these results motivated?

Insert paragraph(s).

### 1.2 Allocation Use

Summarize your project's allocation use to date this year: percent of allocated core-hours used on each platform, job size distribution, number of users, etc. Associate the resource use with particular results where possible. Also summarize your project's projected use from now until the end of December (i.e., end of current allocation year): anticipated percent of allocated core-hours used on each platform, job size distribution, etc. Associate this resource usage with anticipated results. Do you expect your usage to be evenly distributed throughout the remainder of this year? If not, explain.

Insert paragraph(s).

If included, call out equations, tables, figures, and references in numerical order in text, such as Eqs. (1) and (2), Table 1, and Fig. 1 below.

$$\partial_t \phi + u \cdot \nabla \phi = \nabla^2 \phi + \frac{1}{\tau} R(\phi) , \quad (1)$$

$$\frac{\partial \phi}{\nabla \phi} = \frac{1}{2} \nabla^2 \phi \frac{e^{-\frac{R-R^2}{2u}}}{(2\tau)^{3N/2}} \sqrt{xyz} \sum 1 + 23 . \quad (2)$$

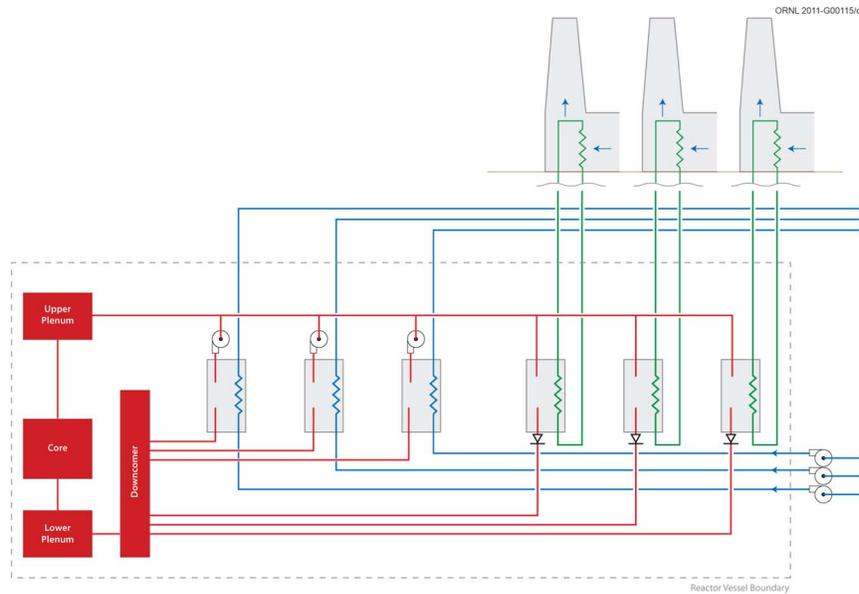
**Table 1. Table title**

Column one	Column two	Column three	Column four
xxx	xxx <sup>a</sup>	xxx	xxx
xxx	xxx	xxx	xxx

<sup>a</sup>Footnote here.

### 1.3 Application Parallel Performance

Summarize the performance (percent of peak, scalability) of your project's simulation tools used in the allocations this year. What progress was made in improving the application's performance on this



**Figure 1. Figure caption.**

architecture? What challenges (if any) remain? List the technical risks and challenges that were confronted by your project (overcome or not) this year. Were they anticipated?  
 Insert paragraph(s).

*1.3.1 Heading 3 (optional)*

Insert paragraph(s).

**1.4 Data Storage**

What is the current cumulative size of stored data? What is your projection for the cumulative size of stored data at the end of the project? What tools and/or plans do you have to reduce the data? To share the data?  
 Insert paragraph(s).

**REFERENCES (optional)**

References must be single-column format, 11 point, Arial or Times New Roman.