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| **No.** | **Need Statement (Requirement)** | **constraint** | **criteria** | **Importance \*** |
| 1 | The frame must be more laterally stable than the current design. | √ |  | 5 |
| 2 | The mini mill must weigh less than the current design. | √ |  | 5 |
| 3 | The mini mill must be able to move in three dimensions freely. | √ |  | 5 |
| 4 | The mini mill must be able to withstand the forces of drilling. | √ |  | 5 |
| 5 | The mini mill should have a camera mounted. |  | √ | 3 |
| 6 | The mini mill should be compatible with Alexa. |  | √ | 4 |
| 7 | The mini mill should be complete by December 8. |  | √ | 2 |
| 8 | The mini mill should have minimal environmental impact. |  | √ | 1 |
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*\* use a 1-5 scale for importance (5= absolutely critical, 1=not important)*

*\*\* For constraints, always use “5” for importance. Evaluate the importance of each criterion on a scale of 1-4.*