**States Diagram Explaination**

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| **States** | **Description** |
| Idle | Process when the rover goes to sleep. This will only happen in the beginning of the process and when the rover calls Sleep method from driving. |
| Drive | Process when the rover is moving. State transitions allowed during driving are Take Photo, Turn, and Idle. |
| Turn | Process when the rover turns according to the degree specified in the parameter. This states transition will only happen when the rover is idle or driving. |
| Take Photo | Process when the rover is taking photo. This state transition will only happen when the rover is driving, idle, or turn. |
| Report Environment Status | Process when the rover send report of the environment status. This state can only be transitioned from driving, idle, or turn |
| Soil Chemistry Analysis | Process when the rover is performing soil chemistry analysis. This states will only be transitioned from states Idle, Take Photo, or Turn |