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| **Scenario One: Node-RED Flow HMI Test Cases** | |  |  |  |  |
|  |  |  |  |  |  |
| **Test ID** | **Description** | **Input** | **Output** | **Comments** | **Pass/Fail** |
| 1 | Press Start Button | Start Button | All Guages active on HMI |  |  |
| 2 | Press Stop Button | Stop Button | All Guages inactive on HMI |  |  |
| 3 | Press Tag Out Button | Tag Out Button | All Guages inactive on HMI |  |  |
| 4 | Turn Switch-Manual Switch On | Pitch Slider = 198 Switch-Manual On | Pitch = 198 |  |  |
| 5 | Perform Attack Path (90 Degrees) | Wind Direction = X Manual Pitch = X + 90 | Pitch = 0 RPM = 0 Wind Speed = 0 Energy = 0 Wind Direction = 0 |  |  |
| 6 | Press Restart Button After Attack Path | Restart Button | All Guages active on HMI |  |  |
| 7 | Press Restart Button After Start | Restart Button | All Guages active on HMI | Wind Direction briefly switches to 0 |  |
| 8 | Press Restart Button After Stop | Restart Button | All Guages active on HMI |  |  |
| 9 | Perform Attack Path Second Time (90 Degrees) | Wind Direction = X Manual Pitch = X + 90 | Pitch = X RPM = X Wind Speed = X Energy = X Wind Direction = X | RPM briefly switches to 0 |  |
| 10 |  |  |  |  |  |
| 11 |  |  |  |  |  |
| 12 |  |  |  |  |  |
| 13 |  |  |  |  |  |