DSES MEMO #2 - 11/09/2020

System 1 Startup Shutdown Check List

System 1 Startup (Automatic) (Version 1.27/2920)

Check When Completed	Task
	Before starting up the system ensure the Mount Motor and Electronics in the Tower are turned off Verify the Switches in the Legacy Mount Control Chassis are in the Neutral Positions.
	Move Jones Plug from Legacy Mount Control Chassis to System 1 Shelf (Back of Shelf)
	Power Up Mount Motor and Electronics in Tower – Switch Located In Bottom of Tower
	Plug in the USB Hub, located on System 1 Shelf, to the power strip (Back of Shelf)
	Plug in Operator Console Laptop USB Cable to USB Socket on the Front Panel of the System 1 Shelf
	Verify Time Machine is Powered Up and Sync'd (NTP Time Source) POW – Green, LOCK – Illuminated Yellow, SEC is blinking Yellow once a second.
	Boot Operator Console Laptop and Login to the System (Password: Deadzone01) Bring up Terminal Window (Click on Terminal Icon on Bottom Lower Left of Screen)
	Verify Time Sync on Operator Console: issue command: ntpq -p <enter> Verify that timemachine has a (192.168.1.15) listed entry which is populated (not all zeroes)</enter>
	Issue a Date Command to verify the Operator Console Time: date <enter></enter>
	SSH into the Raspberry PI to verify Time Sync: ssh haswell@dcs <enter> , password: Haswell\$01 <enter></enter></enter>
	Verify Time Sync on Operator Console: issue command: $ntpq -p$ <enter> Verify that <i>timemachine</i> has a (192.168.1.15) listed entry which is populated (not all zeroes).</enter>
	Issue a Date Command to verify the Raspberry Pi Time: date <enter></enter>
	Issue Exit Command to Logout of the Raspberry Pi: exit <enter></enter>
	Toggle on the VFD Switch located on the Front Panel of the System 1 Shelf
	Start the System 1 Software by Double Clicking on the "Operator Console Automatic" icon
	Operate the System

System 1 Shutdown (Automatic) (Version 127/29/20)

Check When Completed	Task
	Using the System 1 software, Stow the Mount
	Terminate the Raspberry Pi System – From the "System 1 Operator Display" Commands Menu: Commands -> Shutdown Server -> Shutdown Server Hardware
	Terminate the System 1 Software
	Shutdown the Operator Console Laptop
	Toggle off the VFD Switch on the Front Panel of the System 1 Shelf
	Disconnect the Operator Console Laptop USB Cable from the System 1 Shelf
	Unplug the USB Hub, located on System 1 Shelf (Back of Shelf) and place the power plug on the Shelf (not on a shelf component)
	Power Down the Mount Motor and Electronics in Tower – Switch Located In Bottom of Tower
	Move the Jones Plug from the System 1 Shelf (back of Shelf) and plug into the back of the Legacy Mount Control Chassis
	When leaving the site ensure: the Mount Motor and Electronics in the Tower is powered down, The USB Hub is powered down, the VFD switch is toggled off, the USB Cable is detached and Operator Console Laptop is turned off.

System 1 Startup (Manual) (Mesion127/2920)

Check When Completed	Task
	Before starting up the system ensure the Mount Motor and Electronics in the Tower are turned off. Verify the Switches in the Legacy Mount Control Chassis are in the Neutral Positions.
	Ensure the Jones Plug is plugged into the Legacy Mount Control Chassis
	Power Up Mount Motor and Electronics in Tower – Switch Located In Bottom of Tower
	Verify Time Machine is Powered Up and Sync'd (NTP Time Source) POW – Green, LOCK – Illuminated Yellow, SEC is blinking Yellow once a second.
	Boot Operator Console Laptop and Login to the System (Password: Deadzone01) Bring up Terminal Window (Click on Terminal Icon on Bottom Lower Left of Screen)
	Verify Time Sync on Operator Console: issue command: $ntpq -p$ <enter> Verify that <i>timemachine</i> has a (192.168.1.15) listed entry which is populated (not all zeroes)</enter>
	Issue a Date Command to verify the Operator Console Time: date <enter></enter>
	SSH into the Raspberry PI to verify Time Sync: ssh haswell@dcs <enter> , password: Haswell\$01 <enter></enter></enter>
	Verify Time Sync on Operator Console: issue command: ntpq -p <enter> Verify that timemachine has a (192.168.1.15) listed entry which is populated (not all zeroes).</enter>
	Issue a Date Command to verify the Raspberry Pi Time: date <enter></enter>
	Issue Exit Command to Logout of the Raspberry Pi: exit <enter></enter>
	Toggle on the Legacy Mount Control Chassis
	Start the System 1 Software by Double Clicking on the "Operator Console Manual" icon
	Operate the System

System 1 Shutdown (Manual) (Mesion127/2920)

Check When Completed	Task
	Using the switches on the Legacy Mount Control Chassis, Stow the Mount
	Terminate the Raspberry Pi System – From the "System 1 Operator Display" Commands Menu: Commands -> Shutdown Server -> Shutdown Server Hardware
	Terminate the System 1 Software
	Shutdown the Operator Console Laptop
	Toggle off the Legacy Mount Control Chassis
	Power Down the Mount Motor and Electronics in Tower – Switch Located In Bottom of Tower