



### Radar Groom Check-List

June 30, 2015; prepared by Ray Southard

<b>Vessel Name:</b>	<b>SVC Call ID:</b>
<b>Date of Service:</b>	<b>Port and Dock:</b>

Equip ment	TASK DESCRIPTION	Results			
		Normal operation	N/A	Defective	Remarks
<b>Display</b>	<b>Initial Operational checks</b>				
<b>1</b>	Turn on the radar. Allow a few minutes for it to time in. If the magnetrons show less than 3,000 hours, then there may be no need to proceed with the groom.				
<b>2</b>	Check display for normal echo returns on all ranges				
<b>3</b>	Is radar receiving AIS targets and correct GPS information?				
<b>4</b>	Does radar correctly follow gyro and speed log? Is bearing and heading correct?				
<b>5</b>	Run the Self Test if available. For instructions, refer to the radar manual.				

<b>Turning unit</b>	<b>Before going aloft, secure and tag out radar. Place a notice on the display alerting others that a man is aloft.</b>				
<b>1</b>	Verify that the mounting bolts for the turning unit and scanner are in good condition and free of corrosion. Confirm that the mechanical devices are sound and securely mounted.				
<b>2</b>	Open the turning unit.				
<b>3</b>	Lubrication. When there is no grease nipple (i.e. Furuno radars) the replenishment of grease is not necessary.				
<b>4</b>	Lubrication. Remove the cap of the grease nipple on the front of radar TU and using a grease gun inject approximately 100 g, of grease. Do not over grease. Use Mobil EP2				

Equip ment	TASK DESCRIPTION	Results			
		Normal operation	N/A	Defective	Remarks
5	Remove TX unit, clean all dust and debris on the transmitter and receiver sections. Replace the magnetron.				
6	On Furuno X band radars -- which are DC motors -- replace motor brushes.				

Display	Return to the display.				
1	Turn on the radar and allow newly-installed magnetron to warm up for at least 30 minutes before turning on the transmitter. Set the Display to lower range before putting into transmit mode.				
2	Run the radar in short, medium, and long ranges. Verify and make note of the magnetron current; reset TX hours.				
3	Tune radar. For instructions refer to the manual. Adjust receive frequency to match the transmit frequency.				
4	Verify the performance monitor is working properly.				
5	Verify display controls for Rain and Sea clutter (FTC, STC,) Gain, Display brilliance, and Contrast are functioning properly.				
6	Check that the Electronic Bearing Line (EBL) and Variable Range Marker (VRM) are working correctly.				
7	Acquire a target and confirm the ARPA functions are working normally.				
8	Does the Tuning Control feature on the display work correctly in both manual and automatic modes?				
9	Check and log the software version of radar.				
11	Verify and log the magnetron current.				
12	Clean display filters and display monitor.				

**Comments**