

## TECH DATA

# MOV LONG LIFE PASSES SEVERE CORROSION TESTING ON STRESSED SAMPLES FROM ENVIRONMENTAL QUALIFICATION

The Candu Owners Group had Environmentally Qualified MOV Long Life for use in the Limatorque main gearbox applications. Samples had been subjected to the following;

- oven aging at 130°C (266°F) for 660 hours;
- gamma irradiation to 70 Mrad; and
- Loss of Coolant Accident (LOCA) steam exposure including 6 hours exposure to 171°C (340°F) and 105kPa (15 psi) steam.

COG testing had shown that the lubrication characteristics of MOV Long Life remained excellent so the purpose of this testing was to show that the calcium sulphonate thickener would continue to provide corrosion protection for the main gearbox and for limit switch gearbox applications. Samples of the EQ'd grease were tested at an independent lab according to ASTM D-130.

<b>ASTM D-130 COPPER STRIP CORROSION TESTING MOV LONG LIFE GRADE 1</b>	
NEW GREASE	1b
EQ'D PLUS 24 HOURS AT 100°C (212°F)*	1b
EQ'D PLUS 96 HOURS AT 100°C (212°F)	1b

\*Standard test conditions

Comments: After five years aging, irradiation and exposure to steam MOV Long Life still provided excellent corrosion protect, even after four times the normal test time. Note that Nebula did not even survive the five year aging without excessive hardening.

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**Technical questions, product use, test data and reports;**  
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