

**Operations and Maintenance Plan
Controlling Emissions from Chromic Acid Anodize Process**

1.0 Purpose

The purpose of this plan is to ensure operation of chromic acid anodize process in a way which meets the requirements of EPA's National Emission Standard for Chromium emissions (Ref: 40 CFR Part 63, subpart N).

2.0 Method of Compliance

Compliance is being achieved by lowering the surface tension of chromic acid solution by use of a wetting agent. The surface tension is maintained below 45 dynes/cm which is the criteria in EPA's Chromium air emissions rule.

The wetting agent used for this application is Zero-Mist HT-2 manufactured by Enthone-OMI, Inc.

3.0 Apparatus

Fisher Tension Meter Model 20, manufactured by Fisher Scientific Company.

4.0 Procedure

The surface tension of chromic acid solution is determined by following the procedure for determining surface tensions in Fischer's instruction booklet.

5.0 Frequency

Surface tension of chromic acid solution is determined, at a minimum, every 40 hours of operation. If, at any time, the surface tension is found to be higher than 45 dynes/cm. then the frequency of determination is tightened in accordance with schedule outlined in EPA's rule (Ref: 40 CFR part 63, subpart N).

6.0 Recordkeeping

The surface tension values are logged on the attached form (Surface Tension Log - Chromic Acid Anodize Tank).

PALL AEROPower CORPORATION

SURFACE TENSION LOG CHROMIC ACID ANODIZE TANK

O&M Plan
Anodizing Tank
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(For compliance to EPA's National Emission Standard for Chromium Emissions from Chromium Anodizing Tanks)

Note: Surface tension measured in accordance with ASTM D1331

DATE/TIME	HOURS TANK OPERATED SINCE LAST MEASUREMENT	SURFACE TENSION (DYNES/CM)	COMMENTS	ANALYST

Note - Maximum surface tension allowed: 45 dynes/cm