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Plating Quality Plan Requirements					1
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Quality Plan No. / Revision	Plating QP-09 / Rev 0
Purchase Order No.	Standard Plan – See Purchase Order
Material Specification No. / Revision	PS-00001 / Rev 15308 ENP Specification

The following Quality Plans are mandatory and are required to be followed with this Quality Plan:

- ✓ MSF 1.8-5, Heat Treatment (if applicable to the coating process)
- ✓ MSF 1.8-1, Calibration Service Quality Plan Requirements

Identify Applicability
(place an X in the appropriate box)

<input checked="" type="checkbox"/>	Required procedures are submitted for review by the applicable CIRCOR API Manufacturing Location Engineering and/or Quality Departments or by a Subject Matter Expert (SME)
<input type="checkbox"/>	Required procedures are reviewed Onsite by competent CIRCOR Supply Chain location personnel
<input type="checkbox"/>	Technical audit
<input type="checkbox"/>	API Specification 6A is applicable
<input checked="" type="checkbox"/>	API Specification 6D is applicable

Purchasing agreements shall include the following provisions identified by this Quality Plan.

Only vendors that are in good standing in the Approved Vendors List shall be used. Refer to **MSPM 1.8, Purchasing Control** for other purchasing order requirements that may be required.

1. The vendor is required to submit to **CIRCOR** for review:
 - a. A copy of the plating procedure including:
 - i. The vendor's criteria for the qualification and approval of process(es). This also includes provisions for process re-validation.
 1. Requirements for
 2. Part cleanliness
 3. Bath strength
 4. Plating thickness
 - ii. Visual inspection requirements and acceptance criteria
 - b. Copies of the plating applicator qualification records

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- c. Copies of calibration records for inspection, test, monitoring and measurement equipment used in the performance of plating activities
2. The vendor shall submit any proposed changes planting procedure to for **CIRCOR** review prior to using it on **CIRCOR** orders when changes are proposed.
3. The vendor is required to submit calibration records for the following plating inspection, test, monitoring and measurement equipment for example:
 - a. Thermometer (or temperature indicator)
 - b. Plating Thickness Gages (where applicable)
4. The vendor shall provide a Certificate of Conformance(s) to document:
 - a. The vendor's planting procedure number and revision level
 - b. Applicator training and evidence of meeting experience requirements
 - c. Inspection equipment current calibration (traceable to NIST or equivalent national or international standard).
5. Conformance to the requirements stated herein provides sufficient evidence of equipment approval.
6. The vendor shall not subcontract the performance of any planting activities to a sub-vendor without **CIRCOR** approval.
7. The vendor shall notify **CIRCOR** if any portions of the activities covered by this PO are going to be subcontracted.

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Quality Plan Required Documentation - PLATING			
Quality Plan Reference Requirement	What is required?	Circor Review Required	
		Yes	No
1a	Plating Procedure	X	
1b	Personnel Qualification Records	X	
1c	Calibration records for equipment used in the performance of plating activities	X	
3	Calibration records, including record content, for inspection equipment	X	
4	Certificate of Conformance	X	
Attachment I	Including records specified by MSF 2.3.1-1, Supplier Documentation Requirements for this Quality Plan	X	

CIRCOR Supply Chain Location Approval Mike Evans 2/28/18
Signature *Date*

CIRCOR API Manufacturing Site Approval Carlos Castillo 2/28/2018
Signature *Date*

CIRCOR API Manufacturing Site Approval Tom Hill 2/28/18
Signature *Date*