

API SC 18

SUBCOMMITTEE ON QUALITY

TASK/WORK GROUP STATUS REPORT

TG3 - Task Group on Improvements to the Monogram Program

THURSDAY JANUARY 23 2014

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1. SCOPE OF WORK

TG3- Task Group on Recommendations for Improvements to the API Monogram Program.

CHARGE: To review issues and develop recommendations for improvements to the API monogram program.

- **Develop a definition for a manufacturer (NWI 3002)**

This work item was assigned to TG3. Motioned-second-passed during the SC18 meeting in San Francisco on June 30, 2011.

The Work item charge was further expanded during the SC18 Meeting in Ft. Worth Texas on January 26, 2012

New Work Item Summary: Have a study conducted and recommendations made on the appropriate licensee classifications which organizations should be qualified per a given specification, i.e., assembler, steel manufacturer, etc.

2. PREVIOUS STATUS REPORT DATE

Report dated January 24, 2012 was presented to SC18. SC18 voted for the TG to continue the development of a “Definition of Manufacturer” (NWI 3002)

The review of the Guest-Host Monogram Licensing Program (NWI 3007) was removed from the scope of the TG responsibility. Monogram Program Board voted and the Guest-Host Monogram program has been discontinued, effective immediately. Current Guest-Host Licenses will only be valid until June 2013.

3. MEMBERSHIP

TABLE 3-1: TASK/WORK GROUP MEMBERS

Name	Company	E-mail
Ed Durante - Chair	TIEC	edurante@tiec.com
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4. MAJOR ISSUES AND DATES

- API Monogram Program Board (MPB) agreed to the continued need for TG3
- The first TG3 meeting was held on November 15 & 16, 2011 in Houston at the TIEC Training and Conference Center.

- The second TG3 meeting was held on January 24, 2012 in Fort Worth during the API Winter Standards Conference.
- The third TG 3 Meeting was held on May 3, 2012 in Houston at the TIEC Training and Conference Center.
- The fourth TG3 meeting was held September 11, 2012 in Houston at the TIEC Training and Conference Center.
- The fifth TG3 Meeting was held on November 6, 2012 in Houston at the TIEC Training and Conference Center.
- The Sixth TG3 meeting was held on May 21, 2013 in Houston at the TIEC Training and Conference Center.

Previous meetings identified several options for identifying requirements for licensees under the monogram program.

These options include:

1. Self-Disclosure of capabilities. The licensee would identify their capabilities during the application process and whenever changes to those capabilities occur. These would then be verified during on site audits. **The TG found this option to be viable in conjunction with option 3 that identified minimum requirements.**
2. Percentage of materials and/or Labor. Identifying minimum activities by quantifying content, labor or other measureable characteristics in the manufacturing of the products. **The TG found this option too difficult to achieve and is no longer under consideration.**
3. Established Minimum Activities for Licensees: Identifying the key manufacturing and/or production activities that must be performed by the licensee, and which can be Outsourced/Performed Offsite. **The TG found this option to be viable in conjunction with option 1 that that requires licensee to disclose their capabilities and compliance with established minimum requirements.**
4. A combination of 1 & 3 above. **The TG found this option to be the best.**

The TG also identified various types of organizations that should not be considered for Monogram licensing.

Non-Licensable Activities:

Distributor – An organization that buys and sells finished products and materials.

Designer – An organization that performs engineering design activities.

Remanufacturer/Repairer – An organization that repairs and/or remanufactures an existing product through machining, welding, replacement of parts to bring product back to original capability.

Plating/Coating Provider – An organization that applies surface finishes through chemical processing or through the application of protective coating.

The previous meetings resulted in development of initial categories, or types of manufacturers, as they relate to the API Monogram program. The TG continued with the expansion of this approach.

Licensees under each of the following Categories shall have in-house equipment, and personnel and shall perform the required processes needed to produce the products under the scope of the license

These categories include:

Mill - An organization that transforms material into finished product through forming, seam welding, blending, etc.

Processor - An organization that changes the chemical/metallurgical/mechanical properties or characteristics of material and/or product through Heat treating, Casting, Forging, upsetting, molding, etc.

Assembler – An organization that assembles components (NOT Re-Assemble) into finished products through welding, brazing, soldering, bolting, joining, braiding, weaving, etc.

Tester – A Third party organization that verifies the capabilities of finished products to meet specified requirements of API Spec 6AV1 and/or 14A.

Machiner – An organization that changes the physical dimensions of material and/or product through mechanical processing (cutting, grinding, honing, drilling, milling, turning, threading, etc.)

Definitions:

Outsourced – Activity Performed at a qualified outside (non-related) organization

On-site – Activity performed at the licensed facility

Off-site – Activity performed at a related facility of the licensed organization under a Q1 or 9001 compliant QMS for the activities performed

Verification Testing – Testing required by the applicable product specification

Demonstrated capability – Objective evidence that an organization has the facilities, equipment, and competent personnel to perform the activities, under controlled conditions, needed to produce products (including services or processes) which conform to established requirements.

During the September meeting, the Task Group continued in this approach by further developing the activities performed and applying the categories to API 6 Series Specifications, 5 Series Specifications, Specification 4F and 11 Series Specifications, identifying those processes that must be performed at the licensed facility (noted as On-site) and those processes that may be contracted to an external party (noted as Outsourced) or performed at another facility within the same organization and implementing the same QMS (noted as Off-site).

During the November meeting, the Task Group continued in this approach by further developing the activities performed and applying the categories to API 2 Series Specifications, 7 Series Specifications, 11 Series Specifications, 12 Series Specifications, 14 Series Specifications and 16 Series Specifications, identifying those processes that must be performed at the licensed facility (noted as On-site) and those processes that may be contracted to an external party (noted as Outsourced) or performed at another facility within the same organization and implementing the same QMS (noted as Off-site).

During the May, 2013 meeting, the Task Group continued in this approach by further developing the activities performed and applying the categories to API Specifications 2F, 2H, 2B, 5B, 5CT, 5L, 5LC, 5CP, 5Ld, 5CRA, 5DP, 5ST, 6DSS, 8C, 9A, 10A, 17D, 19G1 and 19G2, identifying those processes that must be performed at the licensed facility (noted as On-site) and those processes that may be contracted to

and performed at an external, non-related facility (noted as Outsourced) or performed at another facility within the same organization and implementing the same QMS (noted as Off-site).

The TG work product is as follows:

API Specifications 2B, 2C, 2F, 2H

Examples of assemblies: Offshore Cranes (2C), Mooring Chain (2F), Flash Welded Chain (2F)

Crane Category: **Assembler**

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Material Procurement	Performed on-site or offsite
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site or outsourced
Structure Assembly	Performed on-site
In-process Inspection	Performed on-site or off-site
Load Testing	Performed on-site, off-site or outsourced
NDE	Performed on-site, off-site or outsourced
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

Examples of Components: Structural Steel Pipe (2B), Forged Connecting Links (2F), Plate (2H)

Component Category: **Mill**

Activities to be performed

Material Procurement	Performed on-site, off-site
Receiving Verification	Performed on-site
Forming	Performed on-site
Welding	Performed on-site
Heat Treating	Performed on-site, off-site or outsourced
NDE	Performed on-site, off-site or outsourced
Final Inspection	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

API Specification 4F: Structures

Examples of Structures: Masts, Derricks, Crown Block Assemblies, Substructures.

Category: **Assembler**

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Material Procurement	Performed on-site or offsite
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site or outsourced
Structure Assembly	Performed on-site
In-process Inspection	Performed on-site or off-site
Load Testing	Performed on-site, off-site or outsourced
NDE	Performed on-site, off-site or outsourced
Final Inspection	Performed on-site

Painting/Coating	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

API Specifications 5B, 5CT, 5L, 5LC, 5CP, 5LD, 5CRA, 5DP, 5ST: Tubular Goods:

Examples of Fabricated Products: Thread Gauges, Casing, Tubing, Line Pipe, Drill Pipe, Pup Joints, Couplings

Pipe mill: Category: **Mill**

Activities to be performed

Material Procurement	Performed on-site, off-site
Receiving Verification	Performed on-site
Forming	Performed on-site
Welding	Performed on-site
Upsetting	Performed on-site, off-site or outsourced
Heat Treating	Performed on-site, off-site or outsourced
NDE	Performed on-site, off-site or outsourced
Bevel/Threading	Performed on-site, off-site or outsourced
Verification Testing	Performed on-site, off-site or outsourced
Final Inspection	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site AMA Allowed
Storage/Preservation	Performed on-site, off-site or outsourced

Processing: Category: **Processor**

Material Procurement	Performed on-site or offsite
Receiving Verification	Performed on-site
Upsetting	Performed on-site
Heat Treating	Performed on-site
Mechanical Testing	Performed on-site, off-site or outsourced
Inspection	Performed on-site
NDE	Performed on-site, off-site or outsourced
Verification Testing	Performed on-site
Monogram Marking	Performed on-site, AMA Allowed
Storage/Preservation	Performed on-site, off-site or outsourced

Couplings: Category: **Machiner,**

Material Procurement	Performed on-site or offsite
Receiving Verification	Performed on-site
Threading	Performed on-site
Inspection	Performed on-site
Monogram Marking	Performed on-site
Plating/Coating	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

Threader: Category: **Machiner**

Material Procurement	Performed on-site or offsite
Receiving Verification	Performed on-site
Threading	Performed on-site
Inspection	Performed on-site
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site

Accessory: Category: **Machiner**

Material Procurement	Performed on-site or offsite
Receiving Verification	Performed on-site
Upsetting	Performed on-site, off-site or outsourced
Heat Treating	Performed on-site, off-site or outsourced
NDE	Performed on-site, off-site or outsourced

Machining	Performed on-site
Mechanical Testing	Performed on-site, off-site or outsourced
Testing	Performed on-site
Inspection	Performed on-site
Monogram Marking	Performed on-site AMA Allowed
Coating	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

Specifications 6A, 6D, 6DSS, 600, 602, 603, 608, 609:

Assembled Equipment:

Examples of Assembled Products: Valves, Fluid Sampling Devices, Casing/Tubing Hangers, Chokes, SSV/USV, SSV/USV Actuators, Back Pressure Valves, Actuators, Casing and Tubing Heads, Check Valves, Metal Plug Valves, Bolted Bonnet Steel Gate Valves, Compact Steel Gate Valves/Globe Valves/ Check Valves, Corrosion-Resistant Bolted Bonnet Gate Valves, Metal Ball Valves, Butterfly Valves,

Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site-
Machining	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site or outsourced
Welding	Performed on-site, off-site or outsourced
Final Assembly	Performed on-site
Verification Testing	Performed on-site
Special Testing [Gas/NDE]	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Component Equipment:

Examples of Machined Products: Crossover Connectors, Tubing Head Adapters, Top Connectors, Tees/Crosses, Adapter/Spacer Spools, Flange Connectors, Threaded Connectors, Other End Connectors, Bull Plugs, Valve removal Plugs, Ring Gaskets.

Category: Machiner

Activities to be performed

Product Design	(Can Be Outsourced/Performed Offsite or Excluded per API Advisory 6)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site or off-site
Special Machining [proprietary threads/profiles]	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site
Welding	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

API Spec 7 Series: 7-1, 7-2, 7F, 7K, 7NRV

Assembled Equipment

Examples of Assembled Equipment: Heavyweight drill pipe, roller bits, blade drag bits, Diamond bits, PDC Bits, Kelly Valves, Roller Chain, Rotary Tables, Rotary Slips, High Pressure Hoses, Spiders, Manual Tongs, Power Tongs, Safety Clamps, BOP Handling Systems, Drill String Non-return Valve, Non-return Valve Equalizing Heads

Assembly Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site
Welding	Performed on-site, off-site
Final Assembly	Performed on-site
Verification Testing	Performed on-site
Special Testing	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Components

Examples of Components: Kelly's, drill stem subs, drill collars, Rotary shouldered connections, Thread gauges, Mud Pump Components, Drawwork Components, Rotary Bushings, Non-return Valve Subs, Non-return valve Nipples,

Component Category: Machiner

Activities to be performed

Product Design	(Can Be Outsourced/Performed Offsite or Excluded per API Advisory 6)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site or off-site
Special Machining [proprietary threads/profiles]	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site
Welding	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Threader: Category: Machiner

Material Procurement	Performed on-site or offsite
Receiving Verification	Performed on-site
Threading	Performed on-site
Inspection	Performed on-site
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site

API Specification 8C

Assembled Equipment

Examples of Assembled Equipment: Travelling Blocks, Hook Blocks, Block to Hook Adapters, Drilling Hooks, Tubing Hooks, Sucker Rod Hooks, Casing Elevators, Tubing Elevators, Drill Pipe Elevators, Drill collar Elevators, Sucker rod elevators, Rotary Swivels, Power Swivels, Power Subs, Spiders (Capable of being used as Elevators), Wireline anchors, Drill String Motion Compensators, Kelly Spinners (Capable of being used as Hoisting Equipment) Pressure Vessels and Piping Mounted on Hoisting Equipment, Safety Clamps (Capable of being used as hoisting equipment), Guide Dollies for Travelling Equipment.

Assembly Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site
Welding	Performed on-site, off-site
Final Assembly	Performed on-site
Verification Testing	Performed on-site
Special Testing	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Components

Examples of Components: Hoisting Sheaves, Connectors and Link adapters, Elevator Links, Rotary Swivel Bale Adapters.

Component Category: Machiner

Activities to be performed

Product Design	(Can Be Outsourced/Performed Offsite or Excluded per API Advisory 6)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site or off-site
In-process Inspection	Performed on-site, off-site or outsourced
Welding	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

API Specification 9A

Example of Assemblies: Bright or Drawn Galvanized Wire Rope, Mooring Wire Rope, Torpedo Lines, Well Measuring Strand, Wire Guide Strand, Structural Rope and Strand,

Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
In-process Inspection	Performed on-site, off-site
Welding	Performed on-site, off-site
Final Assembly	Performed on-site
Verification Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Example of Components: Well Measuring Wire.

Category: Mill

Activities to be performed

Material Procurement	Performed on-site, off-site
Receiving Verification	Performed on-site
Drawing	Performed on-site,
Mechanical Testing	Performed on-site, off-site or outsourced
Final Inspection	Performed on-site
Coating	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

API 10A, 10D Specifications

Example of Assemblies: Centralizers

Assembly Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site
Welding	Performed on-site, off-site
Final Assembly	Performed on-site,
Verification Testing	Performed on-site
Special Testing (Annual Validation Test)	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Component: Cement

Category: **Mill**

Activities to be performed

Material Procurement	Performed on-site, off-site
Receiving Verification	Performed on-site
Blending	Performed on-site
Chemical Analysis	Performed on-site
Baking (Kiln)	Performed on-site
Verification Testing	Performed on-site
Final Inspection	Performed on-site
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site

API 11Series Specifications:

Examples of Assembled Products: Subsurface Sucker Rod Pumps, Pumping Unit Structure, Gear Reducers, Packers, Bridge Plugs, Stuffing Boxes, FRP Sucker rods, polished rod clamps,

Assemblies: Category: **Assembler**

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
Heat Treating	Performed on-site, off-site or outsourced
Vacuum Testing	Performed on-site
Sub-Assembly	Performed on-site, off-site or outsourced
Final Assembly	Performed on-site
Final Inspection	Performed on-site
Final FAT Testing	Performed on-site
Plating/Coating	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

Examples of Component/Machined Products: Balls, Seats, Rod Pump fittings, plungers, barrels, pull tubes, valve rods, cages, sucker rod couplings, polished rods, Seating Cups, sub-couplings, polished rod couplings, pumping tees, sinker bars, steel pony rods,

Components: Category: **Machiner**

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site or off-site
Heat Treating	Performed on-site, off-site or outsourced
Final Inspection	Performed on-site
Plating/Coating	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

Sucker/Pony Rods: Category: **Mill**

Activities to be performed

Material Procurement	Performed on-site, off-site
Receiving Verification	Performed on-site
Upsetting	Performed on-site
Heat Treating	Performed on-site, off-site or outsourced
NDE	Performed on-site, off-site or outsourced
Threading	Performed on-site
Mechanical Testing	Performed on-site, off-site or outsourced
Final Inspection	Performed on-site

Coating	Performed on-site
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

Category: **Processor**
(forming non-metallic product)

<u>Activities to be performed</u>	
Product Design	(Can Be Outsourced/Performed Offsite or Excluded per API Advisory 6)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Molding/forming	Performed on-site or off-site
In-process Inspection	Performed on-site
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

API 12B, 12D, 12F, 12J, 12K, 12L, 12P, 650 Series Specifications:

Assembled Equipment:

Examples of Assembled Products: Shop Welded Tanks, Field Welded Tanks, Bolted Tanks, Indirect Type Oilfield Heaters, FRP Tanks, Oil and Gas Separators, Indirect Type Oilfield Heaters (Heaters/Shells/Coils), Vertical and Horizontal Emulsion Treaters, Welded Tanks for Oil Storage –Fabricated Steel Plates and Shop Built Tanks,

Category: **Assembler**

<u>Activities to be performed</u>	
Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Sub-Assembly	Performed on-site
In-process Inspection	Performed on-site
Shop Welding	Performed on-site, off-site
Field Welding	Performed on field location
Final Assembly	Performed on-site
Forming (FRP)	Performed on-site
Verification Testing	Performed on-site or Field (per 12D)
NDE Testing	Performed on-site,
Monogram Marking	Performed on-site or Field (per 12D)
Final Inspection	Performed on-site or Field (per 12D)
Painting/Coating	Performed on-site or Field (per 12D)
Storage/Preservation	Performed on-site or off-site

API Specifications 13A

Components: Oil Well Drilling Fluids

Examples of 13A Components: Barite, Bentonite, Non-treated Bentonite, Attapugite, Sepiolite, CMV-LVT, CMT-HVT, Starch, OCMA Grade Bentonite, PAC-LV, PAC-HV, Drilling Grade Xanthan Gum.

Category: **Mill**

<u>Activities to be performed</u>	
Material Procurement	Performed on-site, off-site
Receiving Verification	Performed on-site
Blending	Performed on-site
Chemical Analysis	Performed on-site
Baking (Kiln)	Performed on-site
Verification Testing	Performed on-site
Final Inspection	Performed on-site
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site

API 14A, 14L Series Specifications:

Assembled Equipment:

Examples of Assembled Products: Sub-Surface Safety Valves, Lock Mandrels,

Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site or outsourced
Welding	Performed on-site, off-site or outsourced
Final Assembly	Performed on-site
Verification Testing	Performed on-site
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Component Equipment:

Examples of Machined Products: Landing Nipples

Category: Machiner

Activities to be performed

Product Design	(Can Be Outsourced/Performed Offsite)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site or off-site
In-process Inspection	Performed on-site
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Spec 16A, 16C, 16D, 16F, 16R, 16RCD Series:

Assembled Equipment:

Examples of Assembled Products: Ram BOP, Annular BOP, Annular Packing Units, Hydraulic connectors, clamps, actuated valve control lines, drilling choke actuators, drilling choke control lines, drilling choke controls, drilling chokes, flexible choke and kill lines, rigid choke and kill lines, swivel unions, control systems for surface mounted BOP stacks, control systems for subsea BOP stacks, discrete hydraulic control systems for subsea BOP stacks, electro-hydraulic/multiplex control systems for subsea BOP stacks, control systems for diverter equipment, auxiliary equipment control systems and interfaces, emergency disconnect sequence systems, backup systems, special deepwater/harsh environment systems, active/passive/hybrid RCD, RCD Bearing assemblies, RCD packer units, RCD housing clamps, Riser tensioner equipment, flex ball joints, Telescopic joint (slip joint), riser joints, riser running equipment,

Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site

Machining	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site
Welding	Performed on-site, off-site
Final Assembly	Performed on-site
Verification Testing	Performed on-site
Special Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Component Equipment:

Examples of Components: Ram Blocks, packers & Top Seals, drilling spools, adapters, loose connections, Tensioner rings, clamps, union connections, riser couplings, Annular seals, lower riser adapter, Buoyancy Equipment

Component Category: Machiner

Activities to be performed

Product Design	(Can Be Outsourced/Performed Offsite or Excluded per API Advisory 6)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site or off-site
Special Machining [proprietary threads/profiles]	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site
Welding	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Category: Processor

(forming non-metallic product)

Activities to be performed

Product Design	(Can Be Outsourced/Performed Offsite or Excluded per API Advisory 6)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Molding/forming	Performed on-site or off-site
In-process Inspection	Performed on-site
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

API Specification 17D (Needs further input/clarification from SC17 re: Scope versus LIF)

Assembled Equipment

Examples of Assembled Products:

Sub-Sea Trees: Tree Connectors and Valves, Valve Blocks, Valve Actuators, Chokes, Choke Actuators, Lead Test and Isolation Valves, TFL-wye Spool, Re-entry Interface Tree Caps, Tree Piping, Tree Guide Frames, Tree Running Tools, Tree Cap Running Tools Tree Mounted Flow Line Umbilical, Tubing Heads, Tubing Head Connectors, Flow Line Bases and Running/Retrieval ,Tree Mounted Control Interfaces.

Sub-Sea Wellheads: Conductor Housings, Wellhead Housings, Casing Hangers, Seal Assemblies, Guide-bases, bore Protectors and Wear Bushings, Corrosion Caps,

Mudline Suspension Systems: Wellheads, Running Tools, Casing Hangers, Casing Hanger Running Tools, Tie Back Tools for Sub-Sea Completions, Subsea completion adapters for mudline wellheads, Tubing Heads, Corrosion caps

Drill through Mudline suspension systems: Conductor housings, Surface Casing Hangers, Wellhead Housing, Casing Hangers, annular seal assemblies, Bore Protectors and wear bushings, abandonment caps,

Tubing hanger systems: tubing hangers, running tools,

Misc. Equipment: Flanged end and outlet connections, clamp hub type connections, threaded end and outlet connections, other end connections, studs and nuts, ring joint gaskets, guideline establishment equipment.

******Check against LIF list.**

Category: **Assembler**

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site-
Machining	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site, off-site or outsourced
Sub-Assembly	Performed on-site, off-site or outsourced
Welding	Performed on-site, off-site or outsourced
Final Assembly	Performed on-site
Verification Testing	Performed on-site
Special Testing [Gas/NDE]	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

Component Equipment: Components to be determined by SC17

Category: **Machiner**

Activities to be performed

Product Design	(Can Be Outsourced/Performed Offsite or Excluded per API Advisory 6)
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site or off-site
Special Machining [proprietary threads/profiles]	Performed on-site, off-site or outsourced
In-process Inspection	Performed on-site
Welding	Performed on-site, off-site or outsourced
NDE Testing	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Final Inspection	Performed on-site
Painting/Coating	Performed on-site, off-site or outsourced
Storage/Preservation	Performed on-site, off-site or outsourced

API Specification 19G-1 and 19G-2

Example of Assemblies: Side Pocket Mandrel, Flow Control Devices for Side Pocket Mandrels

Category: Assembler

Activities to be performed

Product Design	Performed on-site, off-site or outsourced
Material Procurement	Performed on-site or off-site
Receiving Verification	Performed on-site
Machining	Performed on-site, off-site or outsourced
Welding	Performed on-site
Heat Treating	Performed on-site, off-site or outsourced
Final Assembly	Performed on-site
Final Inspection	Performed on-site
Final FAT Testing	Performed on-site
Plating/Coating	Performed on-site, off-site or outsourced
Monogram Marking	Performed on-site
Storage/Preservation	Performed on-site, off-site or outsourced

5. FUTURE WORK PROGRAM

TBD after 2013 Summer Standardization Conference. The TG feels we have addressed all of the product specifications under the current Monogram Program. The TG requests input on 17D products in order to complete this work item.

The TG recommends that the TG Work Product to be submitted to the Monogram Program Board for approval and presentation to the CSOEM. The Product Standard Committees to be asked to review the recommendations of the TG for incorporation into the relevant Product Specifications

6. FUTURE MEETINGS DATES

TBD after 2014 Winter Standardization Conference.

7. RESOURCE NEEDS

The Task Group needs the input and feedback from users/manufacturers/experts with information and input into the various products and processes covered in Specification 17D. Jim McCabe with GE has agreed to join the TG and provide needed expertise for the TG to complete its charge.

It is anticipated that one or two TG meetings will be needed to complete our current Work Item charge.