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AND DOC		ORIGINATOR: 2.23monion 3448 REVIEWED BY: 2.3-50 DATE APPROVED BY: 51te QA Manager DATE				
1.0	REFERENCES					
1-A	QI-QAP-2.1-5, Inspection Pe	"Training and	d Certific	ation of Mecha	anical	
1-8	QI-QAP-11.1-2 ASME Componen	8, "Fabrication t Supports, Clas	n, Install ss 1, 2, an	ation Inspection	on of	
1-C	CP-QAP-16.1,	"Control of Non	conforming	Items"		
1-0		"Testing Phase Code Certifica		Assurance Fundamping"	ctions	
1-8		"Inspection Prosure Testing"	ocedure and	Acceptance Cr	iteria	
1-F	QI-QAP-11.1-2 Inspections"	6, "ASME Pipe	Fabricati	on and Instal	lation	
1-G	QI-QAP-11.1-3	9, "Mechanical	Equipment [nstallation Ins	pection"	
1-Н	CP-QAP-11.1, Requirements	"Inspection Prior to System	Criteria N-5 Certif	and Documen	tation	
2.0	GENERAL			01A-85	-59	
2.1	PURPOSE		r	UIN-UU	, 00	
	for a syste	of this procedum/subsystem wa rol (QC) Group p	kdown and	stablish requir verification b	ements by the	
	a. Release	for flushing an	d preoperat	cional testing	T ESTA	
	b. Pressure	e testing				
	c. Release	for penetration	rsealing	AA	U	

8607100180 860630 PDR FDIA GARDE85-59 PDR



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- d. Verification that piping hangers comply with vendor certified drawings (large bore) or design reviewed drawings (small bore).
- e. Release for preparation on N-5 Data Report

2.2 SCOPE

The scope of this procedure applies to all ASME Section III piping and components being inspected for release.

2.3 RESPONSIBILITY

The QC Group Supervisor shall be responsible for the overall implementation of this procedure.

All inspection personnel performing inspections required by this procedure shall be trained, qualified and certified in accordance with Reference 1-A.

The Quality Engineering (QE). Completions/Start-up Group Supervisor shall be responsible for supplying Quality Control with all the documentation required to perform piping system status walkdowns and component support design verifications.

Design drawing's (i.e, BRP's, BRHL's, GHH's, VCD's, DRD, etc.) used to perform system/subsystem walkdown per Paragraph 2.1 shall be the current revisions of the drawings'. QCI shall document the drawing and revision number on the applicable QC checklist.

3.0 PROCEDURE

3.1 PREOPERATIONAL/TESTING WALKDOWN

The walkdown status of the piping system/subsystem shall be performed using the "QC Preoperational/Flushing Checklist" (Attachment 1), and BRP drawings.

The following information shall be recorded on the System Verification Form (Attachment 7) during preoperational/testing walkdown:

a. Manufacturers' identification/serial number of all ASME stamped items (i.e. piping subassemblies, valves, pumps and vessels), within the boundries of the BRP.



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b. Material identification (i.e., Heat numbers, heat code, material specification) for material supplied by B&R, if available.

General hanger locations and hanger number for permanent hangers and attachments to piping shall be recorded on the BRP.

3.2 PRE-PRESSURE TEST WALKDOWN

The pre-pressure test walkdown status of the piping system/ subsystem shall be performed using the "QC Pre-pressure Test Checklist" (Attachment 2), current BRP drawing, previous BRP drawings and any CMC's that have not been incorporated into the latest drawings.

Valves, pumps, vessels, piping subassemblies and/or Brown & Root supplied material that has been installed by a CMC or a revision to the BRP used during that last walkdown shall have their identification/serial number or material identification recorded on the System Verification Form (Attachment 7).

All additional component supports shall be recorded on the BRP (reference paragraph 3.1).

3.3 RELEASE FOR PENETRATION SEALING

The Area Management Penetrations Seals Supervisor shall notify QC Systems Superintendent of piping penetrations they want released for sealing.

The QC Systems Lead shall verify the penetration meets the following acceptance requirements:

- a. All welds inside penetrations are completed, pressure tested and acceptable.
- b. No base material defects.
- c. Free of foreign material.
- Hangers and permanent attachments required are installed.
- e. Pipe clearance and gradient.

The OC Group will notify Area Management of penetrations acceptable for sealing. Prior to releasing a penetration for sealing, the Penetration Seal Release Form (Attachment 4)



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shall be completed and submitted to the ANI for his concurrence. Completed Penetration Seal Release Forms shall be forwarded to Area Management.

3.4 COMPONENT SUPPORT DESIGN VERIFICATION

The QC Leads shall be responsible for performing an inspection of all ASME component supports to verify they are in compliance with the vendor certified (Large Bore) or design reviewed (Small Bore) drawings.

Inspections of component supports shall be performed using the "QC Component Support Checklist" (Attachment 5).

Any welds on component supports that are not required by the vendor certified or design reviewed drawing shall be inspected in accordance with the requirements of Reference 1-B. Actual weld sizes shall be documented on the vendor certified or design review drawing.

3.4.1 Unsatisfactory items shall be documented in accordance with Reference 1-C/1-H.

The physical measurement of structural welds shall be conducted in accordance with the following guidelines:

- a. On supports where welds have been mapped on Attachment 13 of Reference I-B, remeasurement of the welds is not required unless the weld visually indicates contour modification, or the weld size is changed by a starred (*) revision to the VCD/DRD;
- b. On supports where welds have not been mapped on Attachment 13 of Reference 1-8, remeasurement of accessible welds shall be performed due to weld contour modification.
- Pipe to support clearances are established by Engineering to provide adequate support for the piping, while permitting expected growth or movement due to the operating environment. Clearances indicated on a VCD/DRD are construction installation clearances and do not require remeasurement after clearances are verified on process control documents, unless:
 - a. The support configuration is modified by design change,



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- b. The support is being reinstalled following removal to accomplish a design change or other constuction, or
- c. Directed by Engineering.
- d. Visual examination indicates the sum of the clearances have not changed after verification at time of installation.
- Initial load or travel settings are established by Engineering to provide adequate support for the piping, while permitting expected growth or movement due to the operating environment. Load or travel settings indicated on a VCD/DRD are construction installation clearances and do not require remeasurement after settings are verified on process control documents or QA checklists, unless:
 - a. The support configuration is modified by design change, or directed by Engineering.

3.5 N-5 WALKDOWN

The final status walkdown to verify completion of the system/ sub-system shall be performed using the "QC N-5 Checklist" (Attachment 3) and current BRP's, BRHL's, Vendor Certified or Design Reviewed Drawings.

3.6 SYSTEM/SUBSYSTEM DOCUMENTATION

All items defined on the "QC Checklist" as unsatisfactory shall be documented on the "QC Deficiency List" (Attachment 6) and entered on the Master Data System Description (Attachment 8). QE Completions/Start-up Group/QE Task Force shall verify that all items on the QC Deficiencies List are inputted and shall monitor until system turnover/start-up.

Base material defects and arc strikes shall be identified and resolved per Reference 1-C, in addition to being recorded on the "QC Deficiency List".

When the prerelease walkdown is completed, the QC leads shall return walkdown documentation supplied by Quality Engineering and a copy of the "QC Deficiency List" to the QE Completions/Start-up Group for coordinating resolution of deficient items (Reference 1-D).

The QE Completions/Start-up Group/QE Task Force shall notify the responsible QC Systems leads when the "QC Deficiency



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List" items have been corrected by returning their copy of the deficiency list and supporting documentation to the QC leads. The corrected items will be reinspected to verify acceptability and a copy of the deficiency list returned to the QE Completions/Start-up Group.

A system or portion of a system shall not be considered completed until Quality Assurance has verified through the above mentioned QC walkdown and QE Systems documentation review that all permanent piping, valves, pumps and hangers are complete and intact and have been installed in accordance with current design documentation (i.e., BRP drawings, BRHL's, BRH's, GHH's, CMC's, etc.). Also the pressure test shall have been completed and accepted by the ANI and the Owner in accordance with Reference 1-E.

4.0 REPORTING DEFICIENCIES/NONCONFORMANCES

Deficiencies/Non-Conformances shall be reported and documented in accordance with References 1-C/1-H.



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ATTACHMENT 1 Page 1 of 2

OC PREOPERATIONAL/FLUSHING CHECKLIST

BRP & Rev	QC Checklist Unsat Items	_
		_
		_
		_
		_
		_



PARA.	OP.30.	INSPECTION CRITERIA	QCI/DATE	SAT/UNSAT		
 3.1	L.	The temperature and pressure indicated on the Code Data Plate for valves and equipment is in compli- ance with the piping design requirements indicated on SEP Drawings.				
	2.	Valve location and orientation is in accordance with the design documents.				
	3.	ASME Code Name Places are attached to "N" stamped pumps and vessels.				
	4.	Items show no visible sign of damage.				
	5.	For liquid service, scope are removed from support spring came.	-			
	6.	For steem, game or air service, the scope are in- scalled in support spring came.				
	7.	COMMENTS:				-
		*				-
						-
						-



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	QC PRE-PRESSURE	TEST CHECKLIST	Page	of
		System	QC Checklist Unsat Item	
=			=	
=			-	
=				
=				

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ATTACHENT 2 (Continued) OC PRE-PRESSURE TEST CHECKLIST

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PARA.	OF.NO.	INSPECTION CRITERIA	QCI/DATE	SAT/UNSAT
3.2	1.	All items within the test boundary are complete and readily accessible.		
	2.	Gradient: 3/16" per foot maximum (this applies to horizontal lines deviating from level only. Devi- ations from pluminess of vertical lines and hori- zontal departure from design will be controlled by the two-inch tolerance on location.)		
	1.	The size of all pipe socker welds shall be checked to the requirements of Reference 1-F.		-
	4.	All items in the pressure test boundary are free from are strikes and base metal defects: when identified, they shall be handled in accordance with Reference 1-C.	•	
-		NOTE: Piping shall be installed within the following tolerances of items 6 thru 9-		
-	5.	Slope - Minimum slope shall be as designated on the drawings.		
-	6.	Clearance - A minimum of two inches (2") of clear- ance shall be maintained, including pipe insulation with respect to other piping when one or both lines have an operating respectative of 200° or greater. All other lines may be installed with a minimum of one-inch (1") clearance, with respect to other piping.		-
	7.	For clearance of tipe (with an operating tempera- ture of 200° F or greater) from hangers, walls, ceiling, hand rails, etc., other than pipe to pipe, a minimum of once inch shall be maintained, including pipe insulation. All other lines may be installed with a clearance only for insulation; however, on a case by case basis, it might be necessary to notch insulation to establish clearances which will re- quire engineering approval.		
	š.	When installed in blockouts, sleeves shall be installed so that, for lines with operating temperatures at or above 200° F, their centerlines are within 1/4 inch of siping centerlines. For lines with operating temperatures of less than 200°, the sleeve inside dissecer must be no less than 1/2 inch from pipe outside dissecer.		
	9.	All bolts installed in flanged connections.		



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ATTACHMENT 2 (Continued)
QC PRE-PRESSURE TEST CHECKLIST

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PARA.	OP.NO.	INSPECTION CRITERIA	QCI/DATE	SAT/UNSAT
	10.	Solving material shall be verified by heat number or color code. Document heat number/color code on Attachment 7.		
		CMC's or revisions to the SEP used during the last validous must have items 12 thru 16 complied with.		
	11.	The temperature and pressure indicated on the Code Data Plate for valves and equipment in in compli- sace with the piping design requirements indicated on SRP drawings.		
	12.	Valve location and orientation is in accordance with the design documents.		
	13.	For in-line concentrated loads or equipment tis- ins, a support (permenent or temporary) should be located as close as possible.		
	14	For liquid service, scope are removed from support spring came.		
	15.	For steem, gas or air service, the scope are in- scalled in support spring case.		
	16.	Identify all hangers and permanent attachments on SEP.		
	17.	Equipment anchoring is in compliance with Ref. 1-G (QI-QAP-II.1-39, Paragraphs 3.4.3 and 3.4.3.1)		



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OC N-S CHECKLIST

ys tes	CheckIfst Unsat	BRHL	Checkiist Unsat
å å	Itams	Rev	Itams
	Check I fst		Checklist
SRH/GRIP	Unsat Items	Vendor- Drawing .	Umsat_ Items
Rev			

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ATTACHMENT 3 (Continues)

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Q.C. N-5 CHECKLIST

PARA.	OF.MO.	INSPECTION CRITICIA	QCI/DATE	SAT/UNSAT
3.3	1.	Piping system/subsystem and component supports show no visible sign of damage.		
_	2.	All personent component supports are installed per final design drawings.		
	3.	Piping configuration complies with BRP's.	-	
	4.	All Equipment indicated on SRP is installed.		
	5.	Equipment anchoring complies with Ref. 1-6 (QI-QAF-LL.1-39, Paragraphs 3.4.3 & 3.4.3.1)	-	
	6.	Jam nuc(s) on sombbers and struce are tight and will not curn by hand, using nominal applied force.	_	
_	7.	Nurs, boits, correr pins, lock wire and any removeble mechanical items are inscalled where required (sombbors, scruts, spring came, expen- sion anchor, U-belts, etc.)	_	
CONNEC	DFCS:			
				-
_				
HOTE		PIPING HAS BEEN INSULATED, ANY DAMAGE TO PIPING ST		AVE

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RELEASE FOR HIGH DENSITY PENETRATION SEALS

PENETRATION SEAL RELEASE FORM

Room #	Report #
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ATTACHMENT 5

			Page	ot
Support Drawing	Number/Revision	QUALITY CONTROL	CP-QAP-12.1	Rev.

PARA.	OP.110.	INSPECTION CRITERIA	QCI/DATE	SAT/UNSA
3.5	1.	Support Configuration complies with Vendor Certified or Design Reviewed Drawing (VCD/DRD)		
M/A	2.	Structural number cut lengths comply with Reference dimensions 2 2"		
8/A	3.	Samplace colerances (excluding thickness) comply with the FCD/DRD ± %".		-
S/A	٠.	Working point dimensions locating structural com- ponents comply with the VCD/DRD " l" (except for pipe location colerances)		
3.5.1	5.	 All accessible weids reinspected and are in compliance with VCD/DRD. 		
		 All skewed weids have been reinspected and are in compliance with the VCD/DRD. 		
1.5.1	٠.	Smobber(s) Serial Number a) Nuts, boits, corter pins, lock wire, etc. in- scalled where required.		
		b) Exposed threaded surfaces are free of excess- ive rust or foreign material.		
		c) Somerical bearings are free of foreign macer- ial, and spacer(s) are inscalled as required.		
N/A	7.	Struc(s) (if applicable) Serial number		
		a) Nucs. bolzs, cotter pins, lock wire, etc. in- stalled where required.		
		b) Exposed threaded surfaces are free of excess- ive rust or foreign macerial.		
		c) Soberical bearings are free of foreign macerial	_	
		 Jam nut(s) and barrel will not turn by hand, using nominal applies force. 		
3.5.1	8.	Spring Cam(s) (if applicable) Sertal number		
		a) Murs, bolcs, cotter pins, lock vire, etc. in- stalled where required.		
		b) Exposed threaded surfaces are free of excess- ive rust or foreign material.		



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ATTACHMENT 5 (Cont'd.)

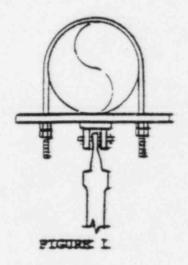
	ATTACHMENT 5	
		Page of
Support Drawing Number/Revision	QUALITY CONTROL	CP-QAP-L2.1 Rev.

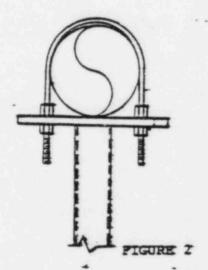
PARA.	OP.30.	INSPECTION CRITERIA	QCI/DATE	SAT/UNSAT
3/A	90.	Concrete Expansion anchors untedment/engagement com- plies with drawing or Attachment 58.		
	90.	Concrete Lawerts have proper embedment/engagement (2D \Rightarrow 1/8").		
HOATTA	ie.	Installation of U-boits on large bore/small bore supports shall be inspected as follows:		1110
		1) 0-boits used in pinned connection application (i.e., struts and snubbers) are to be installed on the pipe as shown in Figure 1 for large bore supports.		
		 U-boits on rigid frames, (large bore) shall be installed as shown in Figure 1. 		
		 U-boits on small bore supports shall be installed as shown in Figure 1 or as specified on the hanger drawing. 		
		4) Clearances as specified on VCD/DED		
3.5.2	11.	Clasrances succ be verified if:		
		a) The support configuration is medified by design change.		
		b) The support is being reinstalled following re- moved to accomplish a design change or other construction:		
		c) Director by Engineering.	-	
		d) Visual Examination indicates the sum of the clearances have not changes after verification at time of inscallation.		
N/A	12.	Remarks:		
			1	



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ATTACHMENT 5A







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ATTACHMENT 5B

TABLE 5

BOLT	DIAMETER	MINIM	EDMENT	
		Kwik-Bolts	Super	Kwik-Bolts
	1/4	1-1/8		-
	3/8	1-5/8		
	1/2	2-1/4		3-1/4
	5/8	2-3/4		
	3/4	3-1/4		
	1	4-1/2		5-1/2
	1-1/4	5-1/2		8-1/8

NOTE: "Embedment Length" is the length of the bolt extending below the surface of the structural concrete prior to setting (tightening).

During tightening the nut, the change in bolt projection shall not exceed one nut height unless otherwise approved by the engineer.



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ATTACHMENT 5C

LENGTH IDENTIFICATION SYSTEM

STAMP ON	LENGTH OF ANCHOR (INCHES)			
ANCHOR	FROM	UP TO BUT NOT INCLUDING		
A	1-1/2	2		
В	2	2-1/2		
c	2-1/2	3		
0	3	3-1/2		
E	3-1/2	4		
F	4	4-1/2		
G	41/2	5		
H	5	5-1/2		
1	5-1/2	6		
1	6	6-1/2		
K	6-1/2	7		
L	7	7-1/2		
M	7-1/2	8		
N	8	8-1/2		
0	8-1/2	9		
P	9	9-1/2		
9	9-1/2	10		
R	10	17		
S	11	12		
T	12	13		
u	13	14		
¥	14	15		
W	15	16		
×	16	17		
Y	17	18		
Z	18	19		



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ATTACHMENT 5D

BOD STOR		/ .	- in 9	CTAMPTED
DOD ST79	VITTMERE	E 1/0		Transport of

ROD	3	π.	MAX. REC	. LOAD/L35.	MEICHIS
SIZE	ROD SIZE	STANDARD THREAD LENGTH	650 ⁰ 9.	750°F.	PER FOOT
03	3/8	1-1/2	610	540	0.376
04	1/2	2-1/2	1130	1010	0.668
05	5/8	2-1/2	1810	1610	1.04
06	3/4	3	2710	2420	1.50
07	7/8	3-1/2	3770	3360	2.04
08	1	4	4960	4420	2.67
09	1-1/8	4-L/2	6230	5560	3.38
10	1-1/4	5	8000	7140	4.17
12	1-1/2	6	11630	10370	6.01
14	1-3/4	7	15690	14000	8.18
16	2	8	20690	18460	10.68
18	2-1/4	9	27200	24260	13.52
20	2-1/2	10	33500	29880	16.59
22	2-3/4	11	41600	37070	20.19
24	3	12	50600	45090	24.03
26	3-1/4	12	50500	53900	28.21
28	3-1/2	12	71260	63500	32.71
30	3-3/4	12	82900	73860	37.55
32	4	12	95500	85100	42.73
34	4-1/4	1.2	108900	97140	48.23
36	4-1/2	12	123200 .	109900	54.08
38	4-3/4	12	138400	123450	60.25
40	5	12	154500	137900	66.76



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	Q.C. DEFICIENCY	LIST	
CP-QAP-12.1	TEST NO	PACEOF_	
ORIGINATUR_	SUBSTSTEA	ISO/PRETURNOVER	

ITEM	DEFICIENCY (DESCRIPTION OR NCR NO.)	CLOSECUT DATE/QCI
		0.10
diam'r.		
		+
		-
		-
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STSTEM VERIFICATION FUNDS

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MASTER DATA BASE INPUT FORM Ext. CUSTODY GODE A G S (CIRCLE ONE) GOSTOLY SEC. GOSTOLY FORM GOSTOLY GOSTOLY FORM GOSTOLY FORM GOSTOLY FORM GOSTOLY FORM GOSTOLY GOSTOLY FORM GOSTOLY FORM	CP-QAP-12.1	8 HMENT 8	AUG 0 3 1983	23 of 23
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T FORM DDY GODE		+++++		++
T FOR				
				+
CUSTOI SEC.				+
BASE IN GU				
DATA BA				
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/ DES				
JOR DOCUMENT / DESCRIPTION				
ORIGINATOR T/D 44 ITEM 44 DOCI				

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