HII_NNC	- NONDESTRUCTE	VE TESTING AUDIT	CHECKI IST(I ITF)

Supplier Name: _	
Supplier No:	
Audit Date:	

This Process checklist is divided into four (4) sections. Section A should be considered minimum requirements when reviewing NDT. Sections B-D are witness/observation, and considered optional (time permitting).

				CTION A – GEN		
A1.	a. Identify types of no					
						-
	MT	UT		PT	ET	
	D.W.	X (TD				
	RT	VT				
						-
	Other (specify):					
					that compares what NDT	
	is being performed to				In addition, sub tier	
	suppliers capabilitiesb. Identify which test				verified by objective	-
	quality evidence.	processes wer	ic withessed	and which were	vermed by objective	
	4					
4.2	Self explanatory.		.1.1.1 1 .	1 (IE DEC	JUDED\0.14	4
A2.	Are applicable NDT procedure number, rev					
	procedure number, re-	vision, date ai	и аррисави	Approvai Numo	er (ii requireu).	
	For Newport News C	VN work, an	approved fo	rm 4790 is the co	orrect approval	
	document. For the V					
	VPAR form. For VC	'S contracts, 1	VNS can acc	ept EB VPAR N	DT procedure approvals.	
	MT Duo and June		Davi	Date	#	
	MT Procedure		Rev	Date	#	
						1
	PT Procedure		Rev	Date	#	
						-
	UT Procedure		Rev.	Date	#	
						_
	VT Dug 1		Davi	Data	ш	
	VT Procedure		Kev	Date	#	
			i .	i		I and the second

HII-NN	IS - NONDESTRUCTIVE TESTIN	G AUDIT (CHECKLIST(L)	TE)	
	ET Procedure	Rev	Date	#	
	RT Procedure	Rev	Date	#	
Person	nnel Qualification:				
A3.	Are the Level III NDT Examiner p method?	ersonnel init	ially certified via	the proper examination	YesNo
	For a Level III NDT Examiner, the Specific. Each area requires a minimum of 80%. If a Level III Execeived by actual testing, this certaill responsible for ensuring their receive a Specific Exam.	nimum score Examiner post t covers the I Level III Ex	e of 70%, with an ssesses an ASNT Basic and Metho xaminer(s) (in-ho	overall composite certificate that was d exams. The supplier is ouse or outsourced)	
A4.	Are the Level II NDT inspection personnel initially certified via the proper examination method? For a Level II NDT Examiner, there are three (3) exams required: General, Specific and Practical. Each area requires a minimum score of 70%, with an overall composite				
A5.	minimum of 80%. Are all NDT personnel, including t interval as required by specification		, recertified by ex	amination at a minimum	YesNo
	The Level III Examiners and Level II inspectors are required to re-certify by examination by taking the required three (3) exams again (just like initial certification). The use of commercial standards where the "point system" or "continued satisfactory performance" for re-certification is NOT ALLOWED.				
	For a Level III Examiner, they my work, and every three (3) years for	· MIL-STD-	271F work.		
	For a Level II Inspector, they must <u>CAUTION</u> : If when reviewing re- ASNT cert for a Level III Examin the actual exams.	-certification	ı paperwork you	are presented with an	
A6.	Are adequate records available to a of examination given, grade, re-cer				SatUnsat
	Should be verified by review of the				
A7.	Do records include evidence of per to maintain qualification?	formance of	applicable NDT	during the last 6 months	SatUnsat
	For Tach Pub 271 work the Level	II NDT inc	nectors need to n	orform the NDT they are	

<u>HII-NNS</u>	- NONDESTRUCTIVE TESTING AUDIT CHECKLIST(LITE)	
	qualified for once every 9 (nine) months to stay qualified. For MIL-STD-271F work, that timeframe is six (6) months.	
A8.	a. Are vision test records available?	SatUnsat
	Tech Pub/MIL-STD 271 requires all NDT personnel to receive an annual eye exam to the Jaeger J-1 requirements. The record should also indicate if the person needs corrective lenses or not.	
	b. Do these records indicate a J1 Jaeger test or equivalent and brightness discrimination, on an annual basis?	SatUnsat
	For RT personnel, a brightness discrimination test is required as well.	
A9.	Do vision test records note corrective aids (glasses) when applicable?	SatUnsat
	As noted in question A8 above.	
	itnessing: The following Section B-D are to be answered as a result of observing NDT erformed and/or observation of the applicable work area:	
	SECTION B: MT	
Magnet Sat	ic Particle (MT):UnsatN/AWitnessedReview of Records	
B1.	Is the correct procedure readily available to the inspector?	YesNo
	Based on observation on the shop floor.	
B2.	Is the inspector qualified?	
22.		YesNo
	Review the NDT inspector and the overseeing Level III Examiner's qualifications per section A above.	
В3.	Is the amperage within the procedure range?	YesNoN/A
	The MT equipment amperage should match with the MT procedure being utilzyed.	
B4.	Is the lighting adequate per procedure?	
<i>-</i>	as the lightning mortune per procedure.	YesNoN/A
	Reference the approved MT procedure for specific lighting requirements and ensure proper lighting at the inspection spot is being used.	
B5.	Are correct accept/reject criteria being applied?	Ves No N/A

HII-NN:	S - NONDESTRUCTIVE TESTING AUDIT CHECKLIST(LITE)	
	Reference the applicable NDT procedure for usage at the inspection station. For NDT inspections conducted in support of welds to MIL-STD-278F, NAVSHIPS 0900-LP-003-8000 should be used. For welds to Tech Pub 278, MIL-STD-2035A should be used.	
B6.	Are records of MT performed adequate i.e. inspector and date, joint or piece inspected, equipment used, number and type of defects, repair description?	YesNoN/A
	The minimum that MT inspection records should contain is: - description/ID of piece being examined - procedure, instruction/equipment info - acceptance standard - date of inspection - signature of inspector - disposition (accept/reject)	
B7.	Is equipment calibration current?	YesNoN/A
	Verified via calibration records SECTION C: PT	
Liquid	Penetrant (PT):SatUnsatN/AWitnessedReview of Records	
		
C1.	Is the correct procedure available to the inspector?	YesNo
	Based on observation on the shop floor.	
C2.	Is the inspector qualified?	YesNo
	Review the NDT inspector and the overseeing Level III Examiner's qualifications per section A above.	
C3.	Is the lighting adequate per procedure?	YesNoN/A
	Reference the approved MT procedure for specific lighting requirements and ensure proper lighting at the inspection spot is being used.	
C4.	Are correct accept/reject criteria being applied?	YesNo
	Reference the applicable PT procedure for usage at the inspection station. For NDT inspections conducted in support of welds to MIL-STD-278F, NAVSHIPS 0900-LP-003-8000 should be used. For welds to Tech Pub 278, MIL-STD-2035A	

HII-NNS	S - NONDESTRUCTIVE TESTING AUDIT CHECKLIST(LITE)	
C5.	Are the correct precleaning, penetrant and inspection developer dwell times being used?	YesNo
	The appropriate PT procedure will list out precleaning times, penetrant times and developer dwell times. The inspector should have a means to monitor how long each of these has been applied, and should stay within the timeframe required in the procedure.	
C6.	Are there adequate records of PT performed?	
		YesNo
	The minimum that PT inspection records should contain is:	
	- description/ID of piece being examined	
	- procedure	
	- Penetrant manufacturer and type ID	
	- acceptance standard	
	- date of inspection	
	signature of inspectordisposition (accept/reject)	
	SECTION D: VT	<u> </u>
Visual	Inspection (VT):SatUnSatN/AWitnessedReview of Record	rds
D1.	a. Is the correct procedure readily available to the inspector?	
D1.	a. is the correct procedure readily available to the hispector:	YesNo
		103110
	Based on observation on the shop floor.	
	b. Is performance in accordance with the procedure?	
		YesNo
	Daged on observation and discussion with Level HVT inspector. When feasible	
	Based on observation and discussion with Level II VT inspector. When feasible, observation(s) of performance should be conducted on actual work completed to the	
	invoked specifications.	
	c. When applicable, is the correct magnification used?	
		YesNo
	If magnification is required by either the supplier's procedure or the specification	
D2.	requirements, the correct magnifying equipment should be on station as needed. Is the inspector qualified?	
D2.	is the hispector quanties.	YesNo
	Review the NDT inspector and the overseeing Level III Examiner's qualifications per	
	section A above.	
D3.	Are adequate gages and measuring devices available to perform inspection in accordance	
	with the procedure?	YesNoN/A
	As a minimum welding fillet agrees should be smallered. Other server by	
	As a minimum, welding fillet gauges should be employed. Other gauges/measuring equipment that should be considered are:	
	- Bridge cam gauge	
	······ · · · · · · · · · · · · · · · ·	İ

HII-NN	NS - NONDESTRUCTIVE TESTING AUDIT CHECKLIST(LITE) - Machinist's Scale	T
	- Machinist's Scale - Undercut depth measuring devices	
D4.	Is lighting adequate?	
		YesNo
	Reference the approved VT procedure for specific lighting requirements and ensure	
	man on lighting at the imprection and is being used	
D5.	For VT of welds, do inspections and records adequately cover the cover the following:	
	Based on a review/sample of VT records and observations/discussions with the NDT VT	
	<pre>personnel on the shop floor. * Weld size</pre>	
	Weld Size	YesNo
	* W. 11	
	* Weld configuration	YesNo
		1cs10
	* Surface uniformity	N N
		YesNo
	* Surface cleanliness	
		YesNo
	* Physical defects	
		YesNo
	* Contour of welded and/or ground surface	
		YesNo
D6.	For VT of items other than welds, are records available?	
טט.	1 of v 1 of hems outer than werds, are records available:	YesNo
	If the specification/contract requires a bonafide	
Additio	onal Comments/Concerns:	