Disposition of NCR 19269 March 3, 2006

All of the indications were reviewed during a conference call on February 27 with EIO, PPPL, and ORNL. This review accepted all "as is" with the exception of a few areas for which we requested radiographic examination(reference NCR 19290 and 19291). Following the radiography these also were accepted "as is". Consequently, this NCR can now be considered closed.



Approved by:

Phil Digitally signed by Phil Heitzenroeder DN: CN = Phil Heitzenroeder, C = US. O = PPPL, OU = Mech. Eng. Division Reason: 1 are the author of this document Date: 2006.03.03 17:19:35-06:00"

Technical representative

Brad Nelson Digitally signed by Brad Nelson DN: cn=Brad Nelson, c=US, c=ORNL, cu=FED, email=nelsonbe@ornl.gov Date: 2006.03.07 10:46:31

Responsible line manager

Major Tool & Machine, Inc. 1458 East 19th Street Indianapolis, IN 46218-4289 Page: 1
MTM N/C: 19269 Date: 02/16/06
User ID: BOWLING

Contact:	NANCY I	INDUSTRIES OF HORTON ven@aol.com	F ОНІО			: 216-496-2314 : 216-328-2001	
Part: Drawing ID:		6 / MODULAR CO	OIL WINDING I Revision: 8	FORM TYPE	Customer P.O.: Serial No./Qty	: S005242-F/Ln : C3	1:3
Reported By: E-Mail:		RIFFITH @MajorTool.com				: 317-636-6433 : 317-634-9420	
Problem: 15 areas of cluster indications (shrink, cold shuts, non-metallic inclusions) on finished machined surfaces. linear indications range from .062" to 1.200" in length (actual discontinuity size), many rounded "indications" exceeding the spec. requirements for level 1 surfaces. In addition, approx. 60 random single indications on level I & II surfaces. See field notes and photos for more details.							
Proposed Disposition: SUBMIT TO CUSTOMER CONTINUE PROCESSING.							
Number of additional pages:							
Customer Dispo	osition:	[] Use As Is	[] Rework	[] Repair	[] Scrap	[] Replace	
Technical (pproval:			ïtle <u>:</u> ïtle:		Date:
	Duyel A	bbro.m.			<u> </u>		
Major Tool Implemented By:					itle <u>:</u>		Date:

Area #1

Linear indications (size of discontinuity not bleed-out) .080" to .500"

14 random rounded indications (size of bleed-out 30min dwell time)

>.125" inspected with pin gage





Area #2

Linear indications (size of discontinuity not bleed-out) .085" to .200"

15 random rounded indications (size of bleed-out 30 min dwell time)

>.125" inspected with pin gage





Area #3

Linear indications (size of discontinuity not bleed-out) .200" to .600"

17 random rounded indications (size of bleed-out 30min dwell time)

>.125" inspected with pin gage





Area #4

Linear indications (size of discontinuity not bleed-out) .100" to .400"

29 random rounded indications (size of bleed-out 30min dwell time) >.125" inspected with pin gage estimated 50% of rounds would not be rejected based on the size of the discontinuity





Area #5
Linear indications (size of discontinuity not bleed-out)
>3.00" non-metallic inclusion (size of bleed out 30min dwell time)





Area #6

Linear indications (size of discontinuity not bleed-out) .075" to .700"

12 random rounded indications (size of bleed-out 30min dwell time)

>.125" inspected with pin gage





Area #7
Linear indications (size of discontinuity not bleed-out)
.200" to .500"

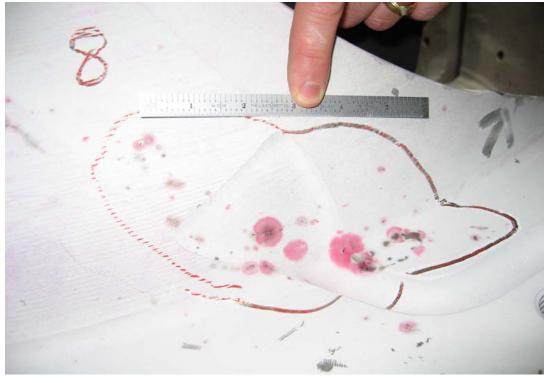






Area #8
Shrink, inclusion pocket, unable to deremine individual size bleed-out ranges from .200" to 1.25"







Area #9a
Linear indications (size of discontinuity not bleed-out)
.300" to .450"







Area #9b

Large defect passes through from machined surface to non-machined surface





Area #10 Shrink pocket .600" x .700"







Area #11 Linear indications (size of discontinuity not bleed-out) .400" to 1.200"



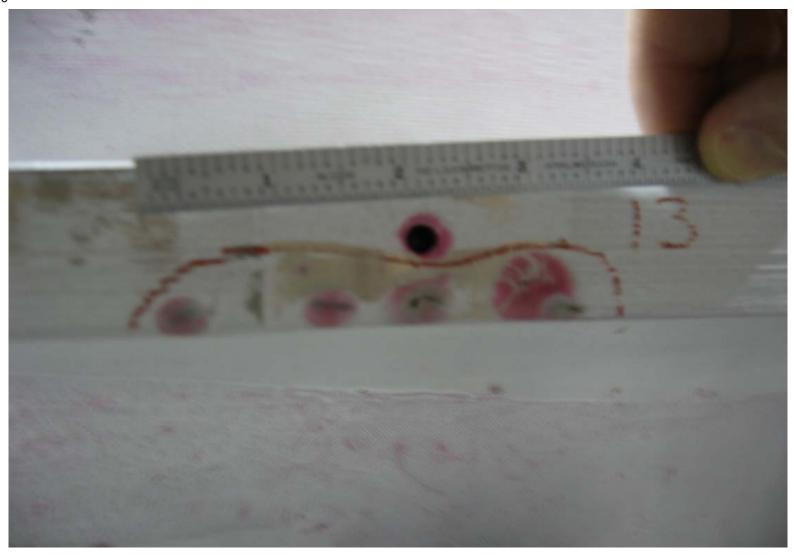


Area #12
Linear indications (size of discontinuity not bleed-out)
.100" to .800"





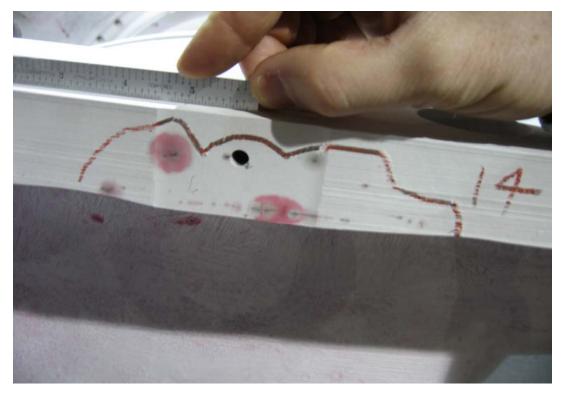
Area #13
Linear indications (size of discontinuity not bleed-out)
.200" to .350"





Area #14
Linear indications (size of discontinuity not bleed-out)
.100" to 1.250"







Area #15
Linear indications (size of discontinuity not bleed-out)
.100" to .300"





Area #16
Linear indications (size of discontinuity not bleed-out)
.100" to .250"







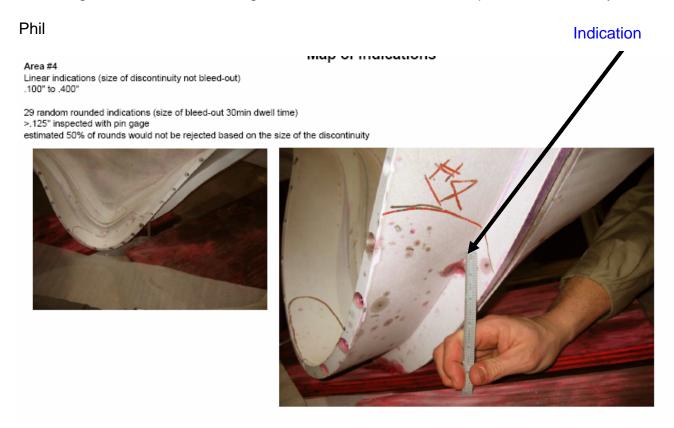
From: Phil Heitzenroeder

Sent: Tuesday, March 21, 2006 2:24 PM **To:** Frank Malinowski (fmalinowski@pppl.gov)

Subject: NC 19269: acceptance of a linear indication after minor grinding

Re:19269

refer to the indication pointed to below. This indication was clearly more visible and the others, prompting more investigation. After discussions between EIO and in NCSX, Major Tool was asked to grind to a depth not to exceed 0.040 inches to see if it would remove the indication. It did not completely remove it, and after some discussions, it was decided to accept as it is based on the relatively low stress in this area and also balancing risks if we continue to grind to the extent that a weld repair was necessary.



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