
Customer: ENERGY INDUSTRIES OF OHIO

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Fax: 216-328-2001

Part: SE141-116 / MODULAR COIL WINDING FORM TYPE

Drawing ID: SE141-116

Revision: 8

Customer P.O.: S005242-F/Ln:4
Serial No./Qty: C4

Reported By: MIKE GRIFFITH
E-Mail: mGriffith@MajorTool.com

Telephone: 317-636-6433
Fax: 317-634-9420

Problem: PART IS REJECTED PER ASTM A903/A903M LEVEL 1. SEE ATTACHED MAP FOR SIZES AND LOCATIONS.

Proposed Disposition:

PROPOSE TO USE AS IS.

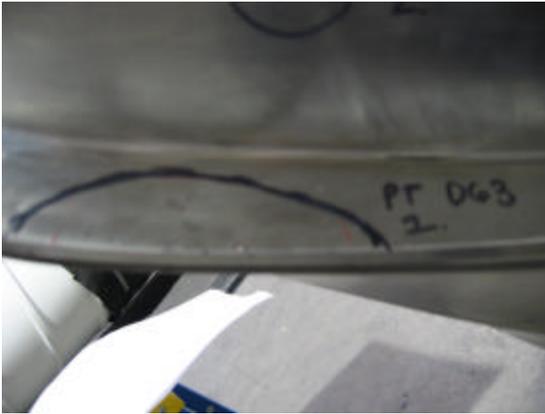
Number of additional pages: 15

Customer Disposition: Use As Is Rework Repair Scrap Replace

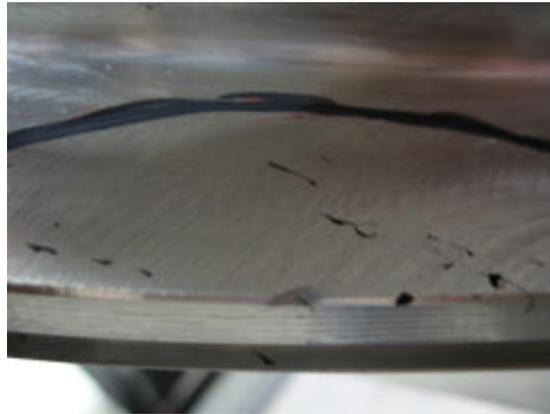
All of the indications were reviewed. Only one raise serious concern, the one near hole location number 21. The stresses in this area were determined to be low, and based on this, we agree with the disposition to use as is. Please see the attached.

Major Tool Implemented By: _____ Title: _____ Date: _____

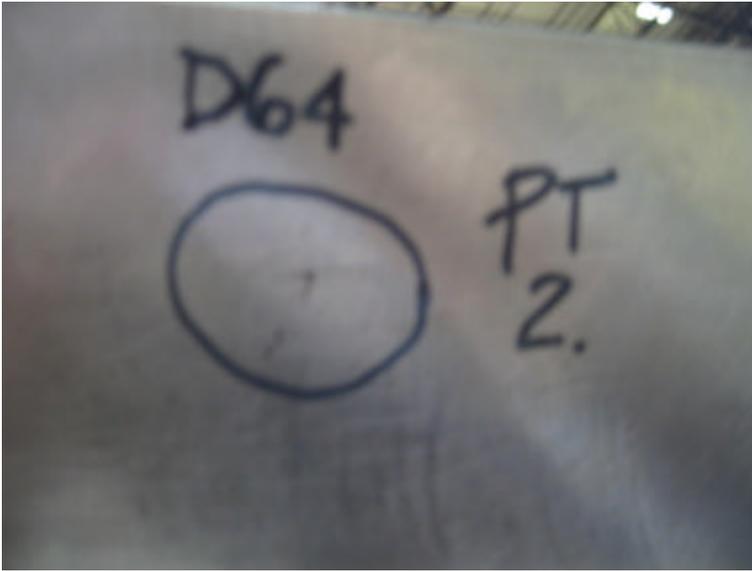
PT Rejection Photos and Dimensions



PT1 is located on the D side near hole 63. There are several linear indications scattered in this area ranging from .08" to .35" and approximately .002" to .008" wide. One indication is rounded and is approximately .08" in diameter.



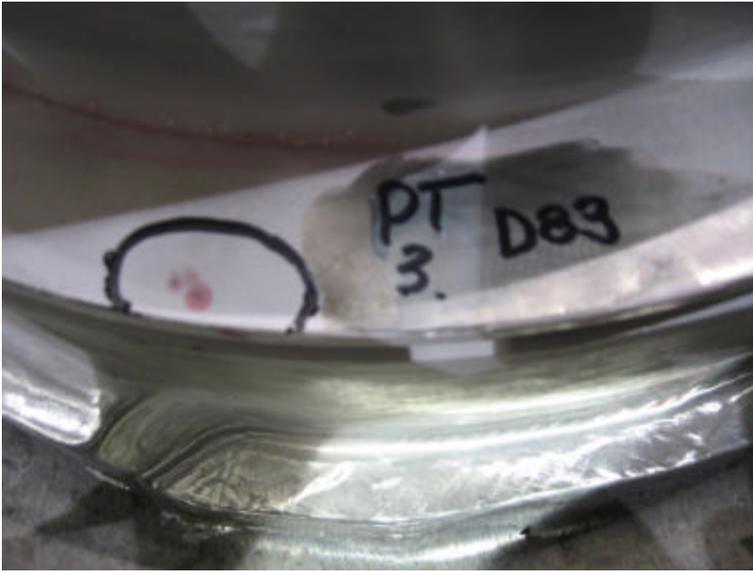
PT Rejection Photos and Dimensions



PT2 is located on the D side near hole 64. There are two linear indications approx. .15" in length each and approx. .005" wide.



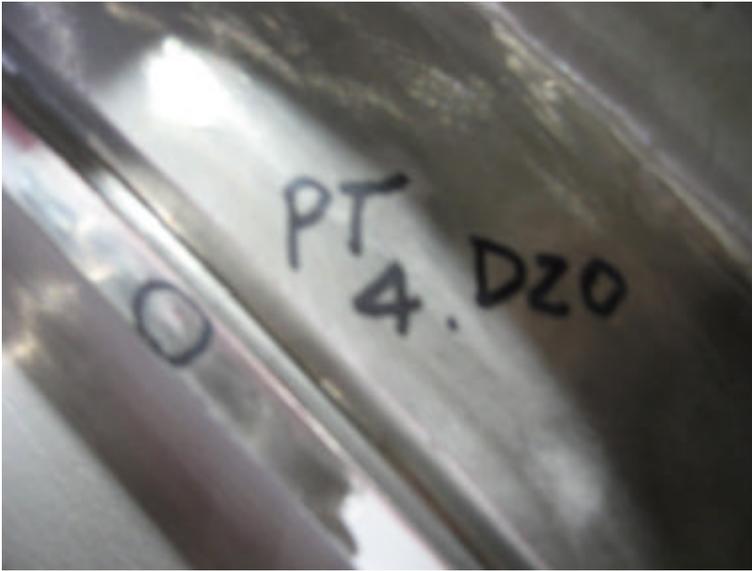
PT Rejection Photos and Dimensions



PT3 is located on the D side near hole 83. The indication is .06 - .08 rounded.



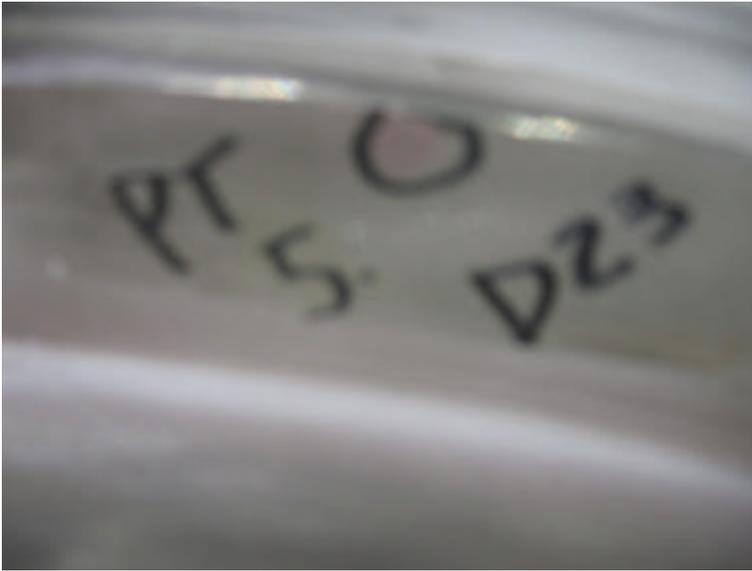
PT Rejection Photos and Dimensions



PT4 is located on the D side near hole 20. Indication is approximately .125 linear.



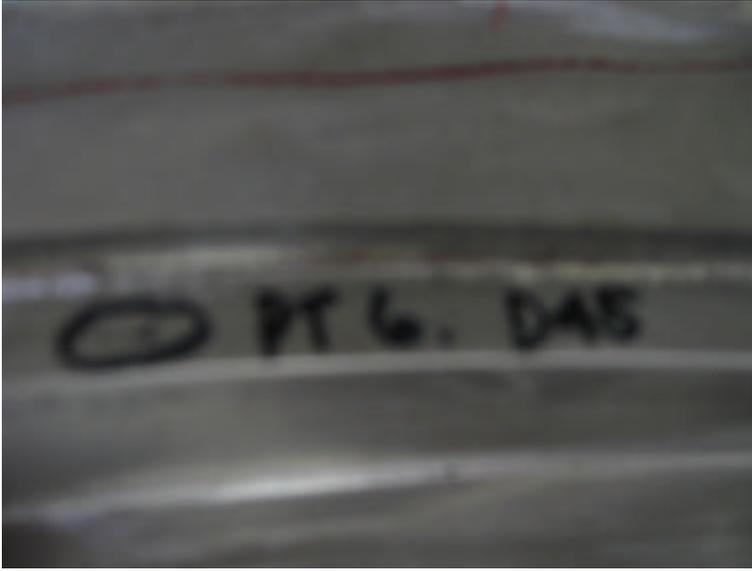
PT Rejection Photos and Dimensions



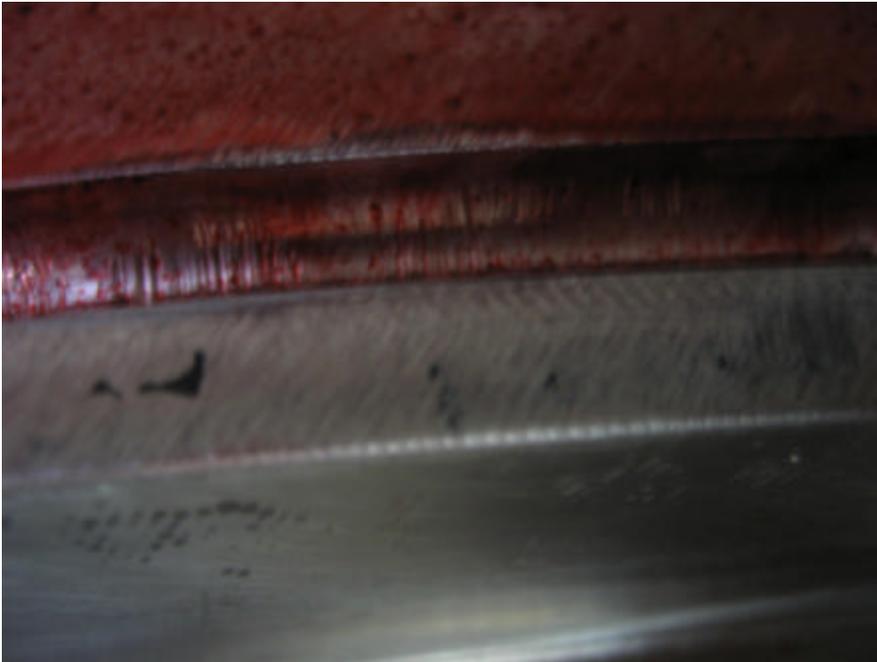
PT5 is located on the D side near hole 23. Indication is approx. .100 linear.



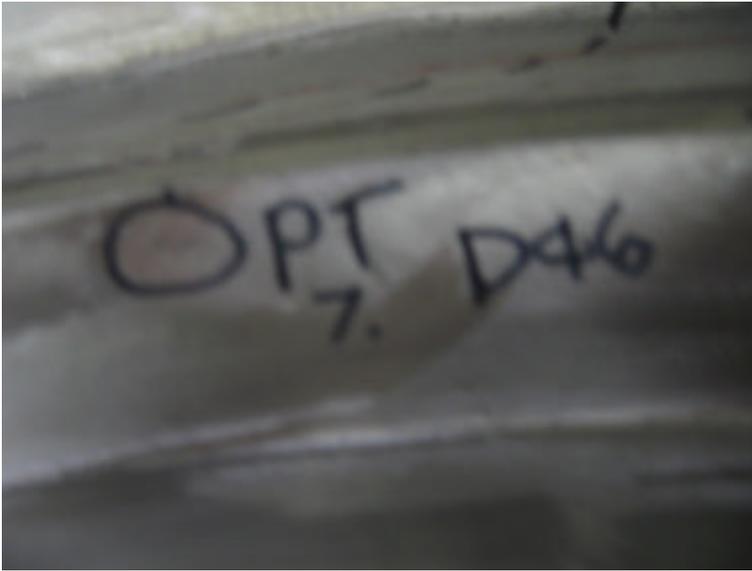
PT Rejection Photos and Dimensions



PT6 is located on the D side near hole 45. The indication is approx. .25" linear.



PT Rejection Photos and Dimensions



PT7 is located on the D side near hole 46. The indication is approx. .300" linear.



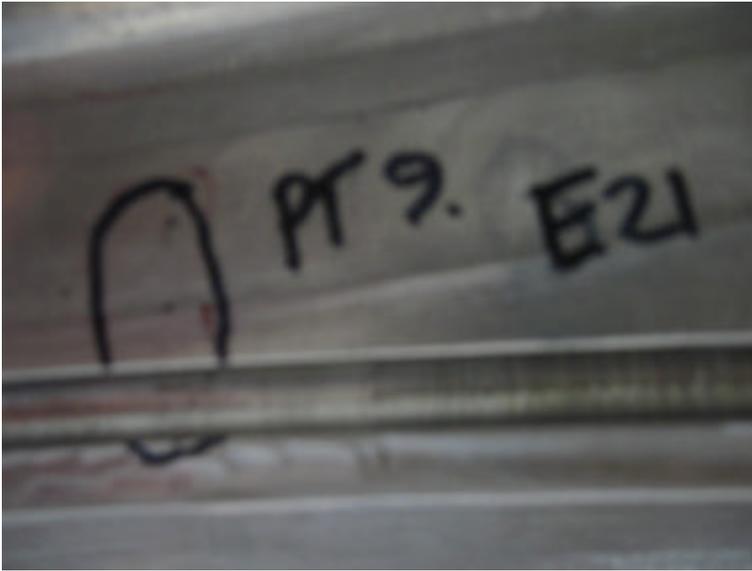
PT Rejection Photos and Dimensions



PT8 is located on the D side near hole 85. The indication is approx. .175" linear.



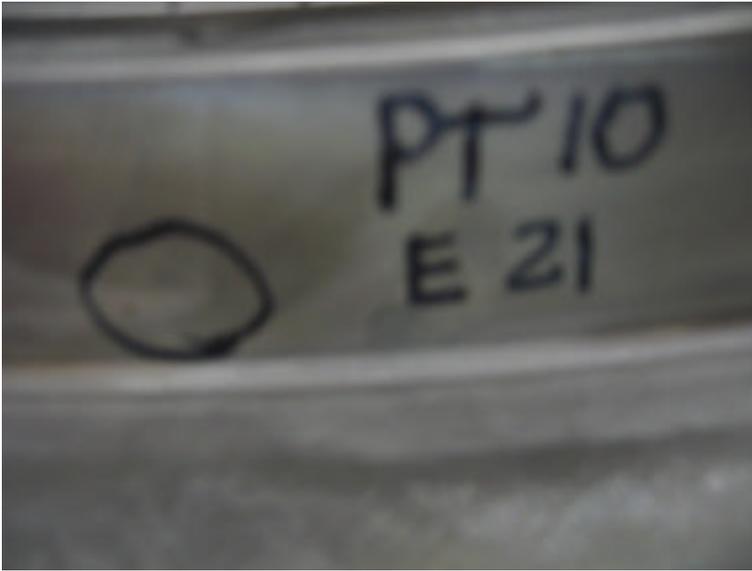
PT Rejection Photos and Dimensions



PT9 is located on the E side near hole 21. The indication is approx. .200" linear.



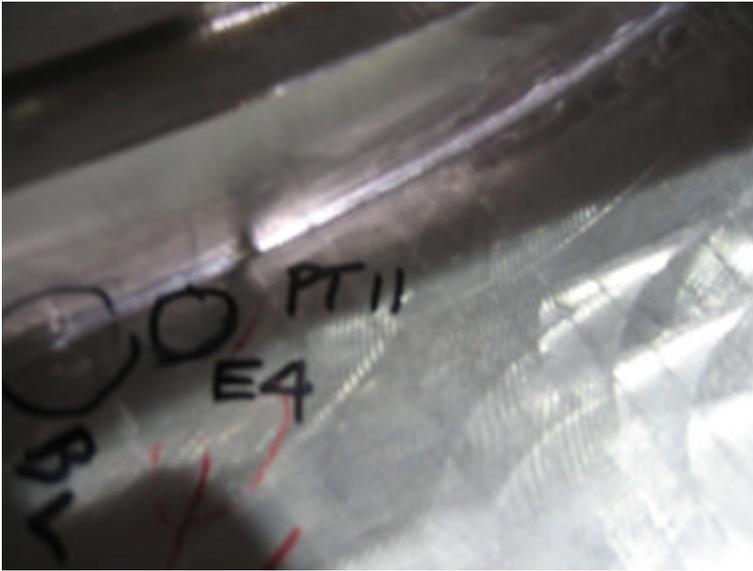
PT Rejection Photos and Dimensions



PT10 is located on the E side near hole 21. The indication is approx. .200" linear.



PT Rejection Photos and Dimensions



PT11 is located on the E side near hole 4. The indication is approx. .100" linear.



PT Rejection Photos and Dimensions



PT12 is located on the E side near hole 60. The indication is approx. .120" linear.



PT Rejection Photos and Dimensions



Indications on D Flange large wing. There are also several smaller indications scattered around the wing area.

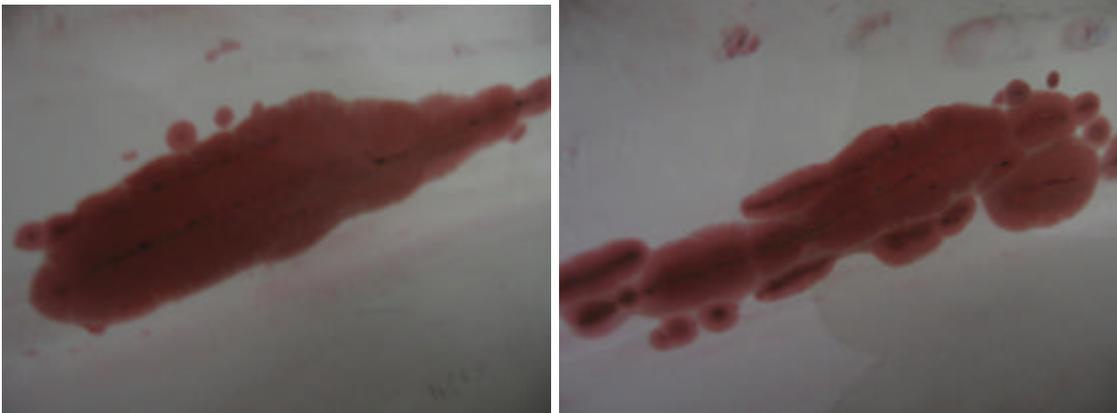


PT Rejection Photos and Dimensions



These pictures show a string of indications in an area in which we ground for clearance below the VPI groove. The photo on the bottom left is about 6" in length and the one on the right is about 3.5" in length. This appears to be area that was weld upgraded at the MTK.

Indications are located on the D side from hole 44 to 49.

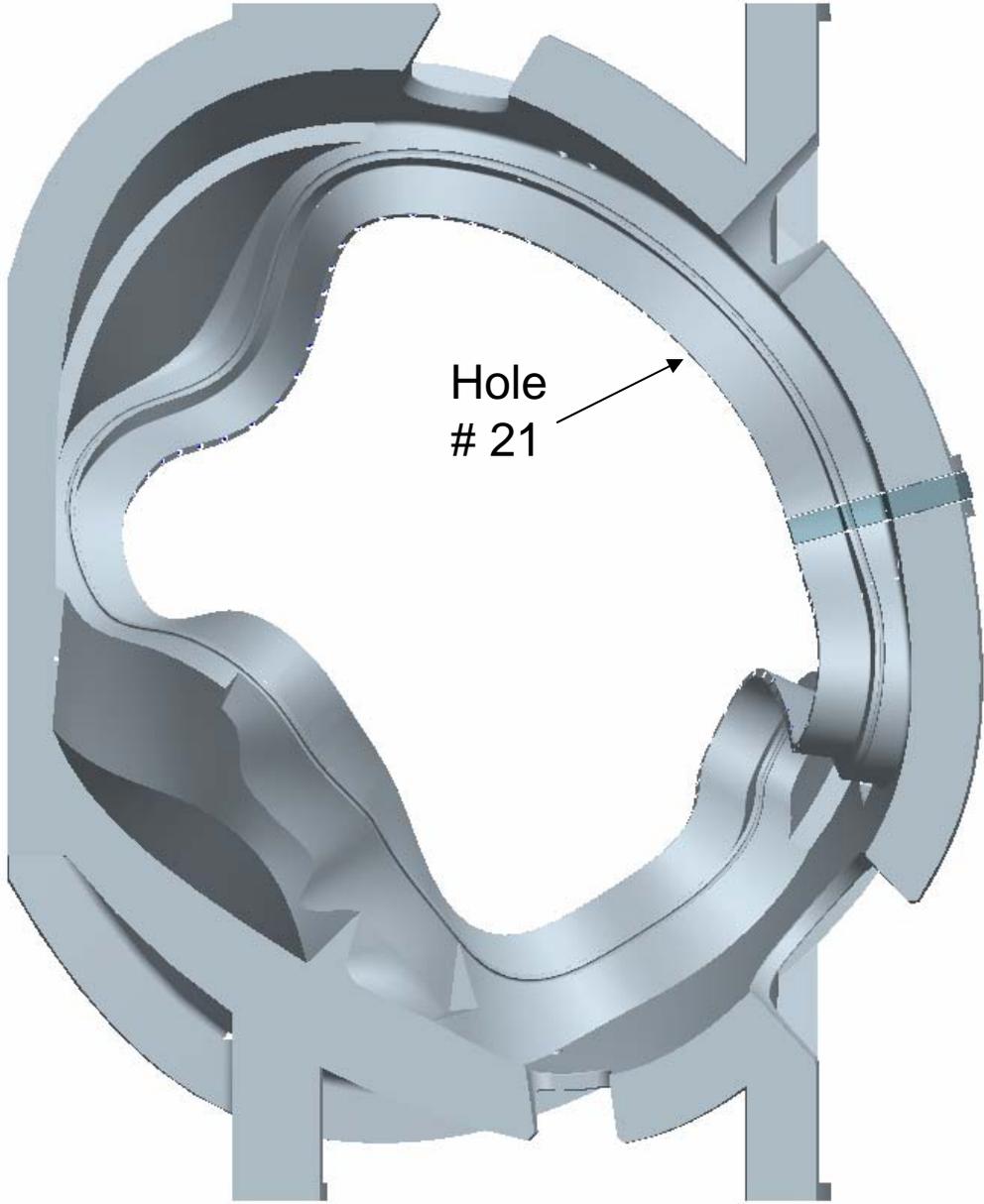


PT Rejection Photos and Dimensions



The above indication is a 1.885 diameter hole located at zone C5 of sheet 4. This is the hole that is closest to the intersection point of the flange to leg. The largest indication is approximately .100" x .03".



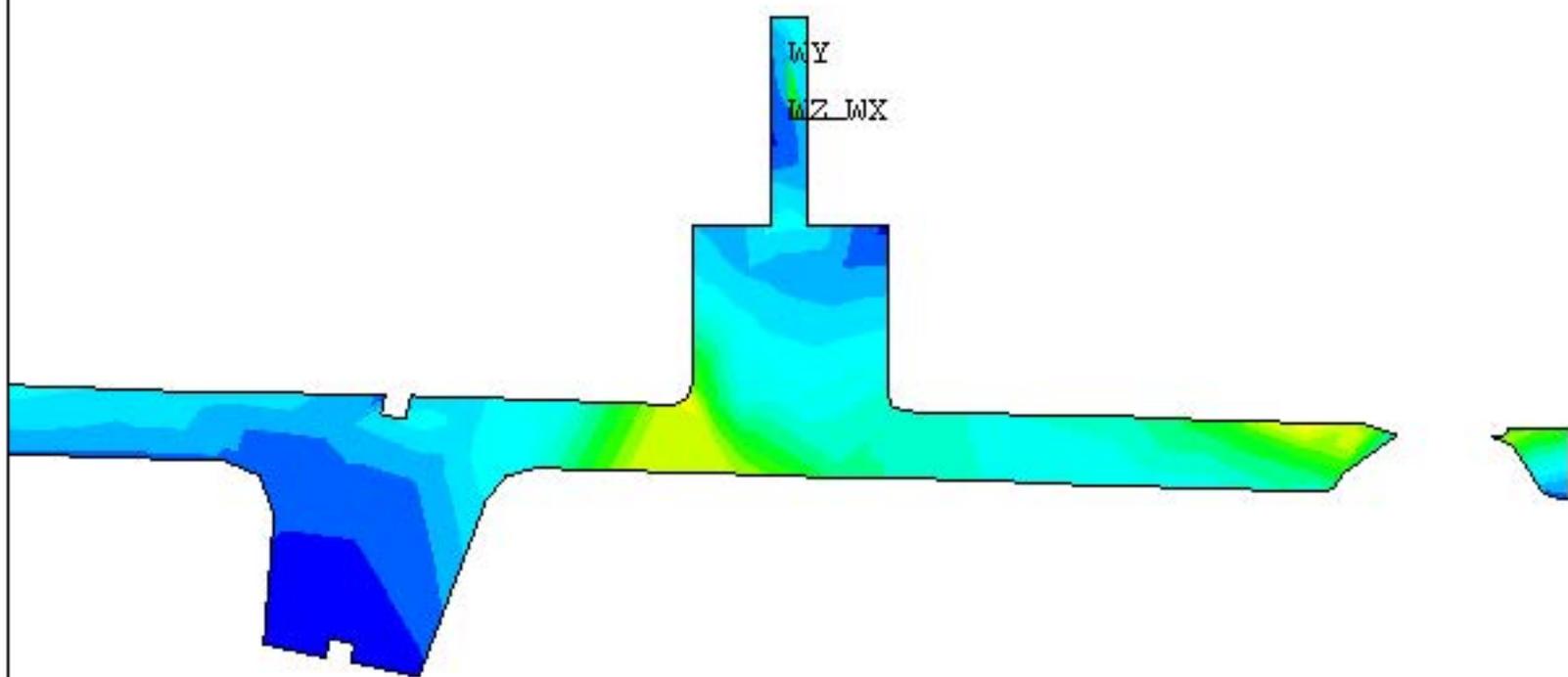
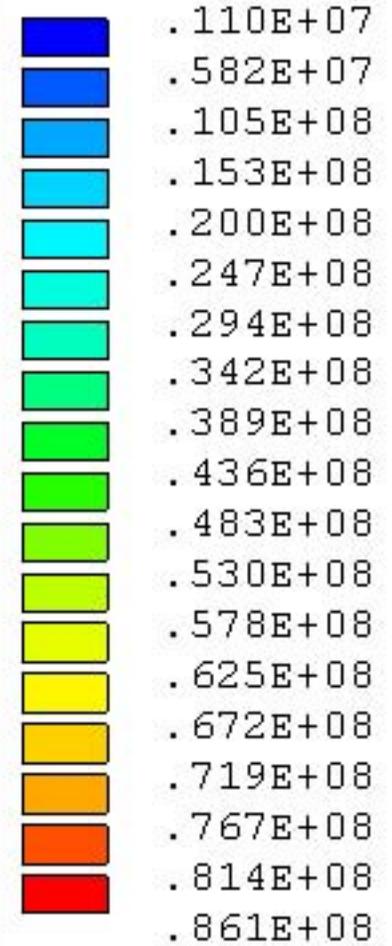


Hole
21

1

ANSYS 10.0
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
PowerGraphics
EFACET=1
AVRES=Mat

DMX =.880E-03
SMN =.110E+07
SMX =.861E+08

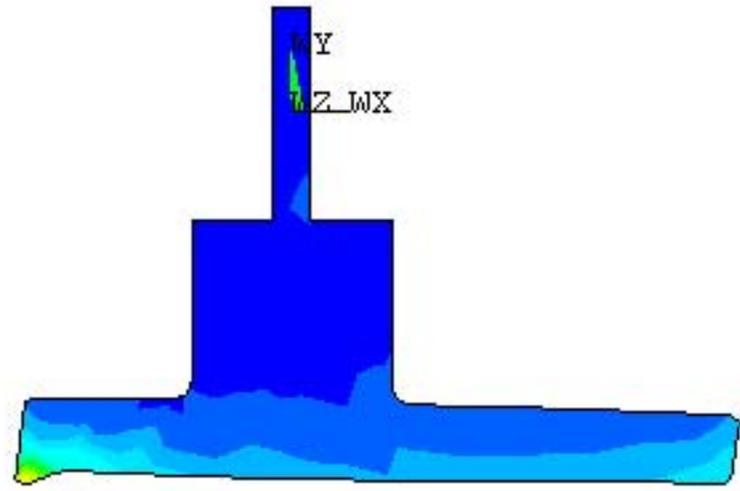


Von_Mises Stress near clamp 19

1

ANSYS 10.0
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.001006
SMN =.305E+07
SMX =.357E+09

	.305E+07
	.227E+08
	.423E+08
	.620E+08
	.816E+08
	.101E+09
	.121E+09
	.141E+09
	.160E+09
	.180E+09
	.199E+09
	.219E+09
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	.298E+09
	.317E+09
	.337E+09
	.357E+09

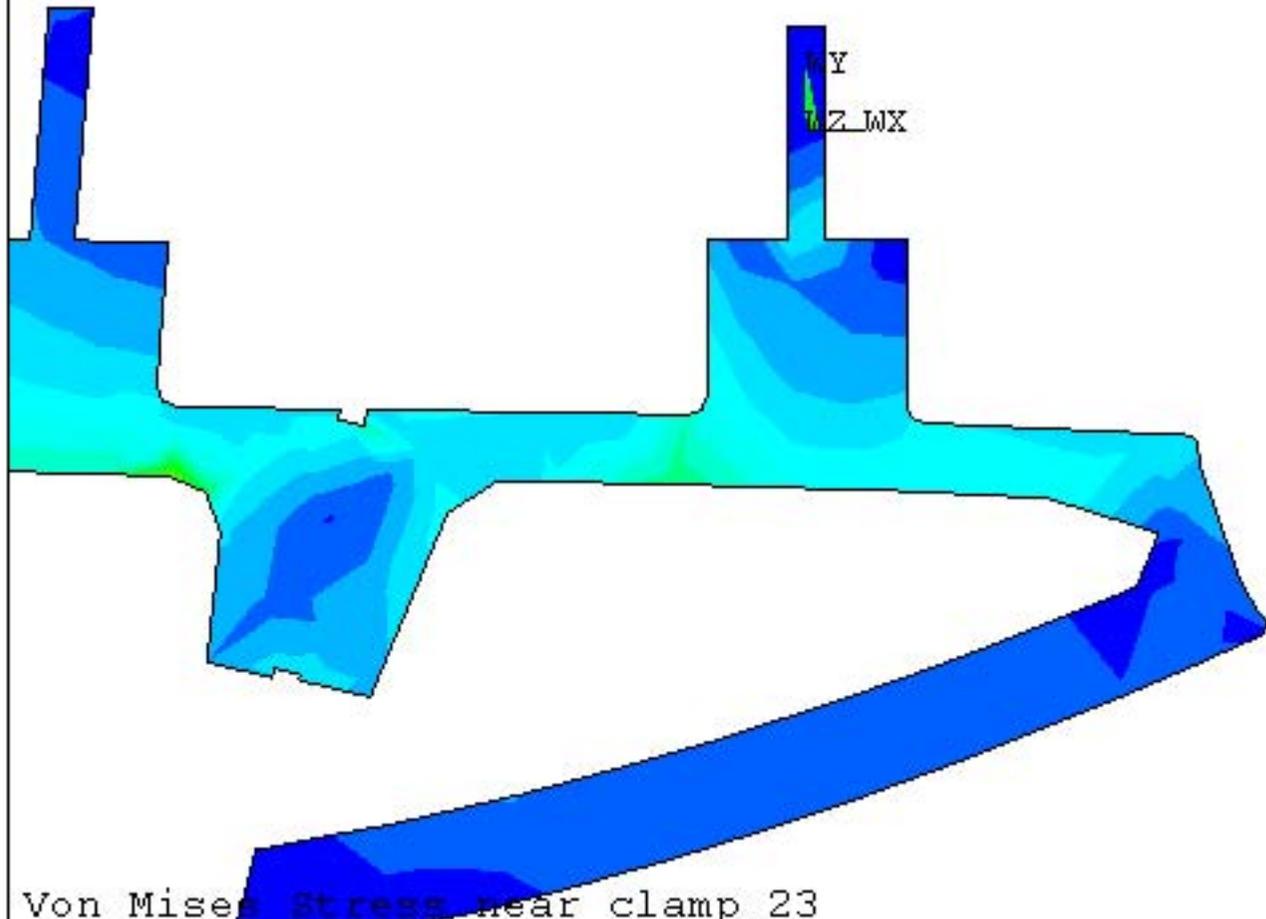


Von_Mises Stress near clamp 21

1

ANSYS 10.0
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.001144
SMN =.172E+07
SMX =.126E+09

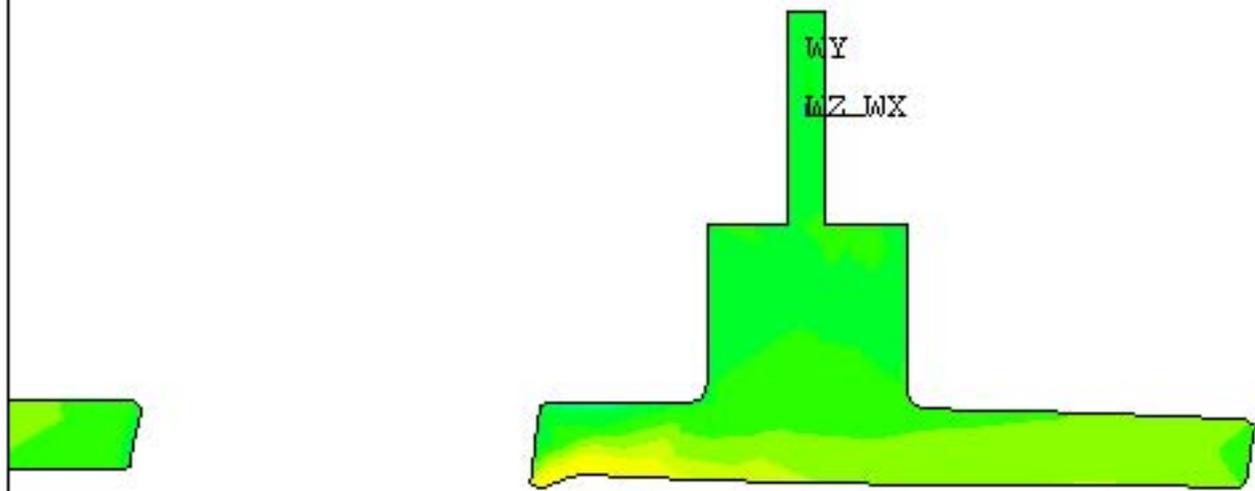
■	.172E+07
■	.862E+07
■	.155E+08
■	.224E+08
■	.293E+08
■	.362E+08
■	.431E+08
■	.500E+08
■	.569E+08
■	.638E+08
■	.707E+08
■	.776E+08
■	.845E+08
■	.914E+08
■	.983E+08
■	.105E+09
■	.112E+09
■	.119E+09
■	.126E+09



1

NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SX (AVG)
RSYS=5000
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.001006
SMN =-.347E+08
SMX =.786E+08

█	-.100E+09
█	-.889E+08
█	-.778E+08
█	-.667E+08
█	-.556E+08
█	-.444E+08
█	-.333E+08
█	-.222E+08
█	-.111E+08
█	0
█	.111E+08
█	.222E+08
█	.333E+08
█	.444E+08
█	.556E+08
█	.667E+08
█	.778E+08
█	.889E+08
█	.100E+09

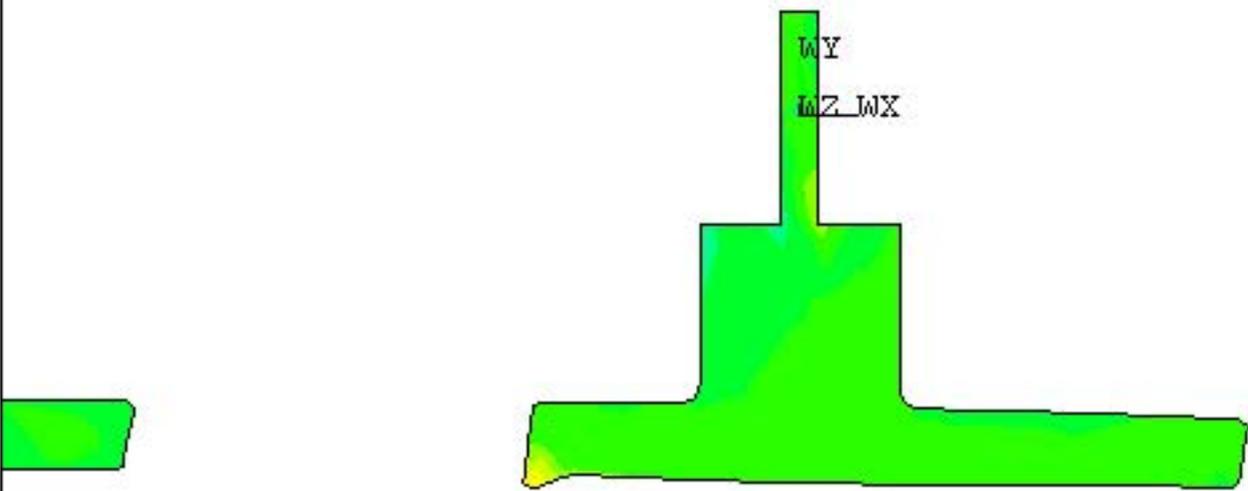


X Stress near clamp 21

1

NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SY (AVG)
RSYS=5000
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.001006
SMN =-.528E+08
SMX =.754E+08

█	-.100E+09
█	-.889E+08
█	-.778E+08
█	-.667E+08
█	-.556E+08
█	-.444E+08
█	-.333E+08
█	-.222E+08
█	-.111E+08
█	0
█	.111E+08
█	.222E+08
█	.333E+08
█	.444E+08
█	.556E+08
█	.667E+08
█	.778E+08
█	.889E+08
█	.100E+09

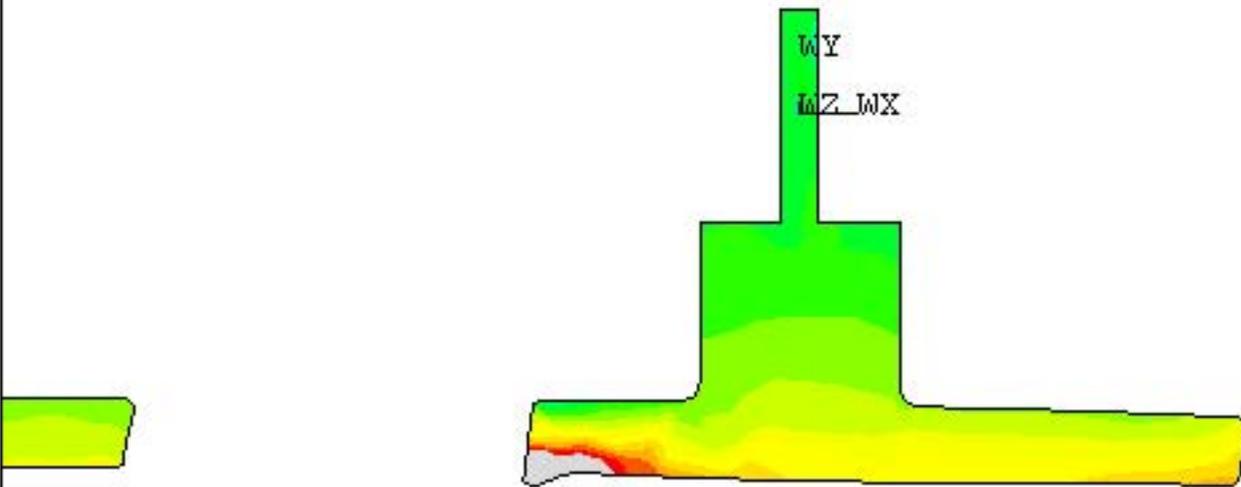


Y Stress near clamp 21

1

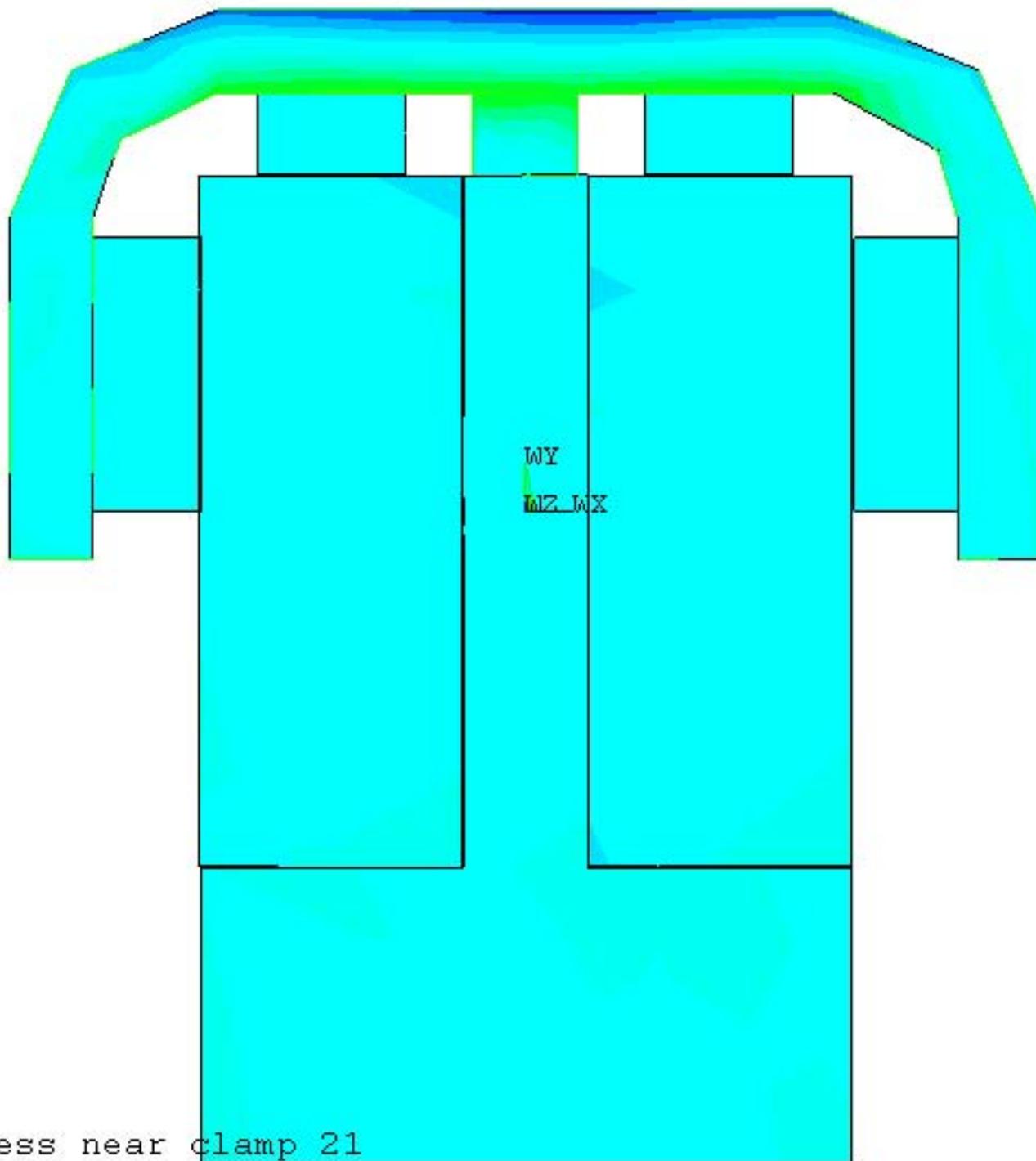
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SZ (AVG)
RSYS=5000
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.001006
SMN =-.377E+08
SMX =.374E+09

█	-.100E+09
█	-.889E+08
█	-.778E+08
█	-.667E+08
█	-.556E+08
█	-.444E+08
█	-.333E+08
█	-.222E+08
█	-.111E+08
█	0
█	.111E+08
█	.222E+08
█	.333E+08
█	.444E+08
█	.556E+08
█	.667E+08
█	.778E+08
█	.889E+08
█	.100E+09



Z Stress near clamp 21

1

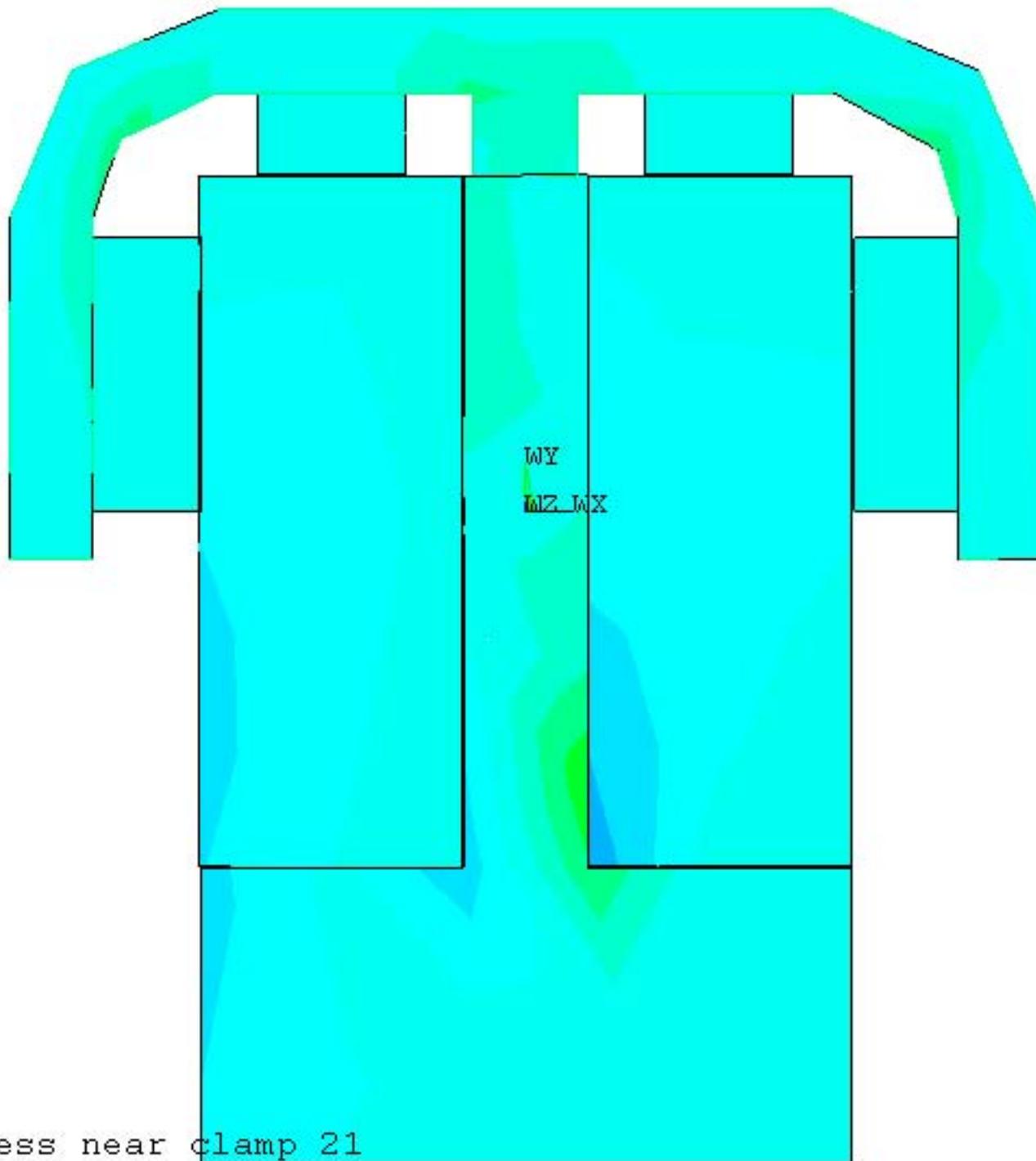


NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SX (AVG)
RSYS=5000
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.002201
SMN =-.335E+08
SMX =.872E+08

■	-.335E+08
■	-.268E+08
■	-.201E+08
■	-.134E+08
■	-.670E+07
■	1386
■	.671E+07
■	.134E+08
■	.201E+08
■	.268E+08
■	.335E+08
■	.402E+08
■	.469E+08
■	.536E+08
■	.604E+08
■	.671E+08
■	.738E+08
■	.805E+08
■	.872E+08

X Stress near clamp 21

1

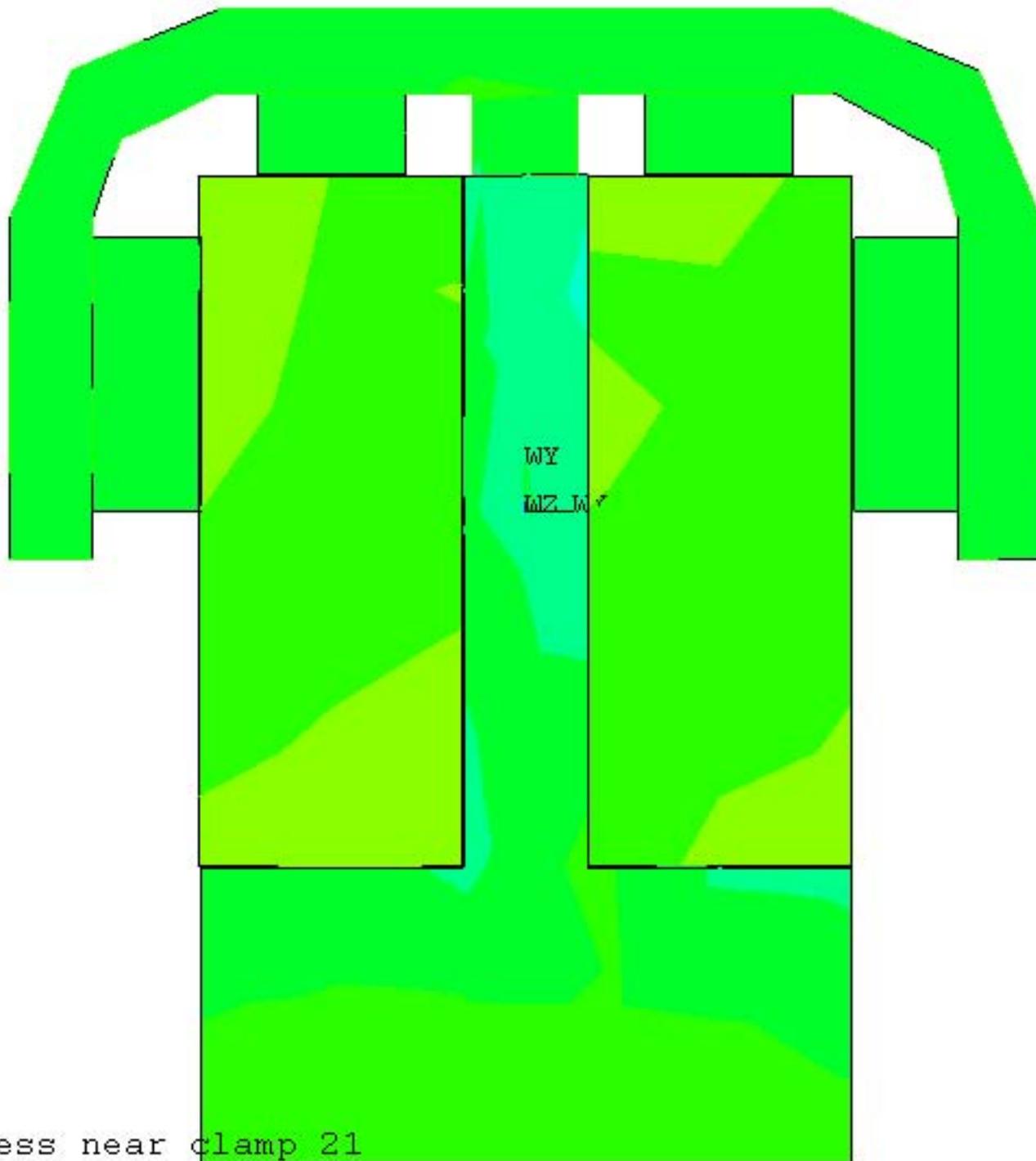


NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SY (AVG)
RSYS=5000
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.002201
SMN =-.440E+08
SMX =.955E+08

█	-.440E+08
█	-.363E+08
█	-.285E+08
█	-.208E+08
█	-.130E+08
█	-.525E+07
█	.251E+07
█	.103E+08
█	.180E+08
█	.258E+08
█	.335E+08
█	.413E+08
█	.490E+08
█	.568E+08
█	.645E+08
█	.723E+08
█	.800E+08
█	.878E+08
█	.955E+08

Y Stress near clamp 21

1



NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SZ (AVG)
RSYS=5000
PowerGraphics
EFACET=1
AVRES=Mat
DMX =.002201
SMN =-.687E+08
SMX =.763E+08

█	-.687E+08
█	-.607E+08
█	-.526E+08
█	-.446E+08
█	-.365E+08
█	-.284E+08
█	-.204E+08
█	-.123E+08
█	-.427E+07
█	.379E+07
█	.118E+08
█	.199E+08
█	.280E+08
█	.360E+08
█	.441E+08
█	.521E+08
█	.602E+08
█	.683E+08
█	.763E+08

Z Stress near clamp 21