

# NCSX Contract Plan and Reporting (Invoicing)

Contract: Subcontract S-04344-F

Date: April 5, 2004

Adjusted to match our actual processed that relates directly to our MIT as processed 12/15/03

A	B	C	D		E		F		G	H	I		J	
			Baseline		Forecast or Actual		Total	Total	Total			W	I	J
	Description	Prerequisites (list task numbers)	Start	Finish	Start	Finish	Orig Budget	Budget on 11/03 Ref Q03-00639	Q03-00639 Adjusted 1/5/04	Actual 04/05/04	Est to complete	Estimated at Completion	Completed Effort	BCWP (budget x %)
Task 1	VVSA Manufacturing Methods. Plus related technical reports.	SOW 3.1	April 10 '03	May 23 '03	April 10 '03	Jan '04	\$ 14,222.00	\$ 15,708.00	\$ 35,150.00	\$ 9,460.00	\$ -	\$ 9,460.00	100%	\$ 35,150.00
Task 2	MIT and Quality Plans for the PVVS	SOW 3.2.1	April 10 '03	May 23 '03	April 10 '03	April '04	\$ 8,321.00	\$ 19,448.00	\$ 17,415.00	\$ 46,102.72	\$ 800.00	\$ 46,902.72	98%	\$ 17,066.70
Task 3	Procure PVVS Materials	SOW 3.2.2	May 30 '03	July 7 '03	June 30 '03	Dec 22 '03	\$ 51,600.00	\$ 17,200.00	\$ 21,150.00	\$ 33,091.12	\$ -	\$ 33,091.12	100%	\$ 21,150.00
Task 4	Manufacture the PVVS	SOW 3.2.2	July 31 '03	Nov 15 '03	July 31 '03	March 31 '04	\$ 79,775.00	\$ 87,601.00	\$ 40,022.00	\$ 138,714.28	\$ 14,256.00	\$ 152,970.28	98%	\$ 39,221.56
Task 5	Manufacture the Fixtures	SOW 3.2.2	May 30 '03	Aug 8 '03	June 20 '03	Jan '04	\$ 48,237.00	\$ 61,431.00	\$ 30,500.00	\$ 36,696.59	\$ 1,720.00	\$ 38,416.59	95%	\$ 28,975.00
Task 6	Procure Material Dies	SOW 3.2.2	May 23 '03	June 27 '03	June 16 '03	Jan '04	\$ 103,943.00	\$ 130,000.00	\$ 166,300.00	\$ 176,121.84	\$ -	\$ 176,121.84	100%	\$ 166,300.00
Task 7	Manufacture Dies	SOW 3.2.2	June 6 '03	Sept 12 '03	July 7 '03	Nov 21 '03	\$ 85,731.00	\$ 129,396.00	\$ 148,893.00	\$ 176,202.57	\$ -	\$ 176,202.57	100%	\$ 148,893.00
Task 8	Final MIT and QA Plans for the VVSA/Firm Fixed Cost Proposal	SOW 3.3.1 &	Oct 13 '03	Nov 15 '03	Oct 13 '03	April 31 '04	\$ 3,870.00	\$ 7,480.00	\$ 8,270.00	\$ -	\$ 12,000.00	\$ 12,000.00	0%	\$ -
Task 9	Engineering & Project Management	SOW 5.0	April 10 '03	Nov 15 '03	April 10 '03	April 31 '04	\$ 4,644.00	\$ 5,236.00	\$ 5,800.00	\$ 4,300.00	\$ 800.00	\$ 5,100.00	85%	\$ 4,930.00
							\$ 400,343.00	\$ 473,500.00	\$ 473,500.00	\$ 620,689.12	\$ 29,576.00	\$ 650,265.12		\$ 461,686.26

**Estimated to complete**  
 Task 2 - Process/Plan  
 NamePlate, Shipping, Support ( 8 hrs)  
 Task 4 - Final PVVS Work  
 Weld Pipe, Polish ID, Blast OD, Inp Insp, Final Insp, Package and Ship (162 Hrs)  
 Task 8 - MIT/QA Fixed Cost Proposal  
 Model Dies/Fixture, Process MIT/Quote (120 hrs)  
 Task 9 - Final Paper Work/Close Order (8 Hrs)

**Increases from last estimated to complete**  
 Task 3 - Vacuum Equipmet (+\$6,111)  
 Task 4 - Vacuum Test took longer than planned & Welding of the tube took longer than planned (+\$ 63,506)  
 See Attached Labor for dates 2/5 thru 4/4

**NCSX Contract Plan and Reporting**

Contract: **Subcontract S-04344-F**

Date: **April 5, 2004**

Adjusted to match our actual processed that relates directly to our MIT as processed 12/15/03

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A	B	H	Total	Total	Total		W	I	J		Values	Values	Formula	Values	Formula	Formula	Pasted	Formula	Formula		Pasted	Formula	Pasted		
	Description	Orig Budget	Budget on 11/03 Ref Q03-00639	Q03-00639 Adjusted 1/5/04	Actual 04/05/04	Est to complete	Estimated at Completion	Completed Effort	(budget x %)	Lot # (ENG -Sub ID Seq)	Q639 Budget Eng Hours	Actual Eng Hrs to Date	Eng to date with FEE	From Work Summary NO FEE	From Work Summary Plus 7.5%	COST TO DATE 04/05/04	Cost to Date Before Adjustment	Over Budget Fees Removed	To Date Total w/ Fees	Invoice Total 01/15/04 data from 12/23/03	Actual 02/05/04	Actual 04/05/04	Difference From Previous Invoices	\$ to Date This Month's 04/05/04	
Task 1	VVSA Manufacturing Methods. Plus related technical reports.	\$ 14,222.00	\$ 15,708.00	\$ 35,150.00	\$ 9,460.00	\$ -	\$ 9,460.00	100%	\$ 35,150.00	Lot 1 (SubID 0 Seq 11)	162.0	88.0	\$ 9,460.00			\$ 9,460.00	\$ 9,460.00	\$ (23,763.25)	\$ 9,460.00	\$ 38,980.66	\$ 9,460.00	\$ 9,460.00	\$ -	\$ 9,460.00	
Task 2	MIT and Quality Plans for the PVVS	\$ 8,321.00	\$ 19,448.00	\$ 17,415.00	\$ 46,102.72	\$ 800.00	\$ 46,902.72	98%	\$ 17,066.70	Lot 1 (SubID 0 Seq 10)	327.0	450.5	\$ 48,428.75			\$ 48,428.75	\$ 48,428.75	\$ 28,687.72	\$ 46,102.72	\$ 9,460.00	\$ 45,605.53	\$ 46,102.72	\$ 7,122.06	\$ 46,102.72	
Task 3	Procure PVVS Materials	\$ 51,600.00	\$ 17,200.00	\$ 21,150.00	\$ 33,091.12	\$ -	\$ 33,091.12	100%	\$ 21,150.00	Lot 1			\$ -	\$ 31,683.09	\$ 34,059.32	\$ 34,059.32	\$ 34,059.32	\$ 11,941.12	\$ 33,091.12	\$ 23,189.09	\$ 26,980.99	\$ 33,091.12	\$ 9,902.04	\$ 33,091.12	
Task 4	Manufacture the PVVS	\$ 79,775.00	\$ 87,601.00	\$ 40,022.00	\$ 138,714.28	\$ 14,256.00	\$ 152,970.28	98%	\$ 39,221.56	Lot 1 (SubID 0 Seq 14)	120.0	234.0	\$ 25,155.00	\$ 194,330.33	\$ 208,905.10	\$ 146,716.35	\$ 146,716.35	\$ 98,692.28	\$ 138,714.28	\$ 29,069.15	\$ 49,193.77	\$ 138,714.28	\$ 109,645.13	\$ 138,714.28	
Task 5	Manufacture the Fixtures	\$ 48,237.00	\$ 61,431.00	\$ 30,500.00	\$ 36,696.59	\$ 1,720.00	\$ 38,416.59	95%	\$ 28,975.00	Lot 3			\$ -	\$ 34,603.74	\$ 37,199.02	\$ 37,199.02	\$ 37,199.02	\$ 6,196.59	\$ 36,696.59	\$ 33,616.16	\$ 36,429.25	\$ 36,696.59	\$ 3,080.43	\$ 36,696.59	
Task 6	Procure Material Dies	\$ 103,943.00	\$ 130,000.00	\$ 166,300.00	\$ 176,121.84	\$ -	\$ 176,121.84	100%	\$ 166,300.00	Lot 2			\$ -	\$ 164,575.07	\$ 176,918.20	\$ 176,918.20	\$ 176,918.20	\$ 9,821.84	\$ 176,121.84	\$ 176,022.40	\$ 176,121.84	\$ 176,121.84	\$ 99.44	\$ 176,121.84	
Task 7	Manufacture Dies	\$ 85,731.00	\$ 129,396.00	\$ 148,893.00	\$ 176,202.57	\$ -	\$ 176,202.57	100%	\$ 148,893.00	Lot 2 (SubID 0 Seq 15)	255.0	316.0	\$ 33,970.00	\$ 165,969.17	\$ 178,416.86	\$ 178,416.86	\$ 178,416.86	\$ 27,309.57	\$ 176,202.57	\$ 173,472.30	\$ 175,853.66	\$ 176,202.57	\$ 2,730.27	\$ 176,202.57	
Task 8	Final MIT and QA Plans for the VVSA/Firm Fixed Cost Proposal	\$ 3,870.00	\$ 7,480.00	\$ 8,270.00	\$ -	\$ 12,000.00	\$ 12,000.00	0%	\$ -	Lot 1 (SubID 0 Seq 12)	77.0	0.0	\$ -			\$ -	\$ -	\$ (7,649.75)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 9	Engineering & Project Management	\$ 4,644.00	\$ 5,236.00	\$ 5,800.00	\$ 4,300.00	\$ 800.00	\$ 5,100.00	85%	\$ 4,930.00	Lot 1 (SubID 0 Seq 13)	54.0	40.0	\$ 4,300.00			\$ 4,300.00	\$ 4,300.00	\$ (1,387.50)	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$ 4,300.00	\$ -	\$ 4,300.00
		\$ 400,343.00	\$ 473,500.00	\$ 473,500.00	\$ 620,689.12	\$ 29,576.00	\$ 650,265.12		\$ 461,686.26		995.0	1,128.5	\$ 121,313.75	\$ 591,161.40	\$ 635,498.51	\$ 635,498.51	\$ 530,910.30	\$ 149,848.62	\$ 620,689.12	\$ 488,109.75	\$ 523,945.03	\$ 620,689.12	\$ 132,579.36	\$ 620,689.12	

Actual Cost (See Attached Spreadsheet)

Data as of February 5, 2004

Resource	Hours	Rate	Extension
Lot 1			
105	13.47		86 1,158.42
108			88 -
110			86 -
205	13.72		86 1,179.92
230	235.71		86 20,271.06
260	7.37		86 633.82
340			87 -
341	197.77		87 17,205.99
405			84 -
410	1.38		84 115.92
415	7.18		90 646.20
700	573.5		100 57,350.00
705	0.44		100 44.00

805	5.2		84 436.80
817	14.95		203 3,034.85
818	3		102 306.00
820	8.65		84 726.60
825	8.26		84 693.84
	1090.6		
Total Labor and Overhead			103,803.42
Material and Services			25,538.39
Total Cost for lot			129,341.81

Lot 2

105	54.25		86 4,665.50
152	41.52		89 3,695.28
160	134.06		89 11,931.34
162	433.32		167 72,364.44
215	3.46		86 297.56
260	3.87		86 332.82
340	280.37		87 24,392.19
341	80.42		87 6,996.54
405	5.23		84 439.32
700	72		100 7,200.00
751	244		100 24,400.00
800	0.62		84 52.08
805	3.31		84 278.04
815	73.22		109 7,980.98
820	6.22		84 522.48
825	0.83		84 69.72

	1436.7		
Total Labor and Overhead			165,618.29
Material and Services			164,575.07
Total Cost for lot			330,193.36

Lot 3

108	17.4		88 1,531.20
134	52.25		89 4,650.25
160	90.79		89 8,080.31
230	37.67		86 3,239.62
405	8.21		84 689.64
410	10.93		84 918.12
800	0.32		84 26.88
815	14.25		109 1,553.25

	231.82		
Total Labor and Overhead			20,689.27
Material and Services			13,645.61
Total Cost for lot			34,334.88

64880

Total Labor and Overhead			290,110.98
Total Material and Services			203,759.07
Total cost for 64880			493,870.05

Data as of April 5, 2004

Resource	Hours	Rate	Extension
Lot 1			
105	13.47		86 1,158.42
108			88 981.20
110			86 933.96
205	41.76		86 3,591.36
230	747.02		86 64,243.72
260	7.37		86 633.82
340	2.04		87 177.48
341	197.16		87 17,152.92
405	0.37		84 31.08
410	1.38		84 115.92
415	9.69		90 872.10
700	812.5		100 81,250.00
705	0.44		100 44.00
800	0.43		84 36.12
805	25.56		84 2,147.04
817	79.55		203 16,148.65
818	10.37		102 1,057.74
820	8.65		84 726.60
825	36.05		84 3,028.20

	2015.82		
Total Labor and Overhead			194,330.33
Material and Services			31,683.09
Total Cost for lot			226,013.42

Lot 2

105	58.32		86 5,015.52
152	41.52		89 3,695.28
160	134.06		89 11,931.34
162	433.32		167 72,364.44
215	3.46		86 297.56
260	3.88		86 333.68
340	280.37		87 24,392.19
341	80.42		87 6,996.54
405	5.23		84 439.32
700	72		100 7,200.00
751	244		100 24,400.00
800	0.62		84 52.08
805	3.31		84 278.04
815	73.22		109 7,980.98
820	6.22		84 522.48
825	0.83		84 69.72

	1440.78		
Total Labor and Overhead			165,969.17
Material and Services			164,575.07
Total Cost for lot			330,544.24

Lot 3

108	17.4		88 1,531.20
134	52.25		89 4,650.25
160	90.79		89 8,080.31
230	37.68		86 3,240.48
405	8.21		84 689.64
410	10.93		84 918.12
700	1.36		100 136.00
800	0.32		84 26.88
815	14.25		109 1,553.25

	233.19		
Total Labor and Overhead			20,826.13
Material and Services			13,777.61
Total Cost for lot			34,603.74

64880

Total Labor and Overhead			381,125.63
Total Material and Services			210,035.77
Total cost for 64880			591,161.40

Major Tool Machine  
 Work Order Cost for :64880  
 Mike Manuel  
 (cost with no fee)

Workorder: 64880/1 -split:0  
Part: /  
Customer: /

Quantity: 1

Engineered By: SILVER/DOUG MCCORKLE  
Scheduled Start: 04-05-04 Sched Finish: 04/30/04  
Release Date: 09-12-03 Want Date: 04/14/04

Resource ID / Description	Estimated Hrs	Actual Hours	Variance
<b>Split ID: 0</b>			
105 / DEBURR PLT 1 LOW BAY / DEBURR PLT	5.00		5.00
108 / TOOL ROOM - PLANT 1 / TOOL ROOM - P	7.50	11.15	(3.65)
110 / ASSEMBLY - RIGGING / ASSEMBLY - RI	14.00	10.86	3.14
141 / 10 HC-100 IN. / 10 HC-100 IN.	32.00		32.00
205 / PLASMA WORKCENTER / PLASMA WOR	8.00	27.24	(19.24)
230 / FABRICATION - WEIDNER / FABRICATIO	664.73	503.87	160.86
260 / SANDBLAST / SANDBLAST	8.75		8.75
340 / VERNON 500 / VERNON 500	2.00	0.71	1.29
341 / PACIFIC 750 / PACIFIC 750	60.00		60.00
405 / SAWS- PLANT 2 / SAWS- PLANT 2	1.00		1.00
410 / BURNOUT TABLE / BURNOUT TABLE	2.75		2.75
415 / ROLLING/SHEAR/BRAKE PRESS / ROLLI	9.50	0.25	9.25
425 / SHIPPING - PLANTS 1 & 2 / SHIPPING - PL	11.00		11.00
450 / SUBLET / SUBLET	0.00		0.00
520 / SUBLET, EXOTIC HEAT TREAT / SUBLET	0.00		0.00
700 / BLUE TEAM, ENGINEERING / BLUE TEA	740.00	188.00	552.00
705 / WELD ENGINEERING/ CWI / WELD ENGI	0.03		0.03
751 / CAD/CAM - MEDIUM MILLING / CAD/CA	2.00		2.00
800 / RECEIVING / RECEIVING	1.25	0.43	0.82
805 / INPROCESS INSPECTION - PLANTS 1 & 2	20.26	20.36	(0.10)
817 / SMX LASER / SMX LASER	28.63	64.59	(35.96)
818 / MQS CONTRACTOR X-RAY / MQS CONT	4.03	7.37	(3.34)
820 / RECEIVING INSPECTION / RECEIVING I	3.76		3.76
825 / FINAL INSPECTION - PLANTS 1 & 2 / FIN	3.00	30.23	(27.23)
830 / SOURCE HOLD POINT - IN PROCESS / SO	0.05		0.05
831 / SOURCE INSPECTION - FINAL / SOURCE	0.00		0.00
<b>Split ID: 0 Totals:</b>	<b>1,629.24</b>	<b>865.06</b>	<b>764.18</b>
<b>64880/1 Totals:</b>	<b>1,629.24</b>	<b>865.06</b>	<b>764.18</b>

Workorder: 64880/3 -split:0  
 Part: /  
 Customer: /

Quantity: 1

Engineered By: SILVER/DOUG MCCORKLE  
 Scheduled Start: 04-13-04 Sched Finish: 04/13/04  
 Release Date: 09-03-03 Want Date: 04/14/04

Resource ID / Description	Estimated Hrs	Actual Hours	Variance
<b>Split ID: 0</b>			
108 / TOOL ROOM - PLANT 1 / TOOL ROOM - P	10.00		10.00
134 / FRORIEP / FRORIEP	28.00		28.00
160 / 30FT MITSU / 30FT MITSU	38.00		38.00
230 / FABRICATION - WEIDNER / FABRICATIO	71.01	0.01	71.00
405 / SAWS- PLANT 2 / SAWS- PLANT 2	4.75		4.75
410 / BURNOUT TABLE / BURNOUT TABLE	7.00		7.00
700 / BLUE TEAM, ENGINEERING / BLUE TEA	0.10	1.36	(1.26)
753 / CAD/CAM - LARGE MILLING / CAD/CAM	8.00		8.00
800 / RECEIVING / RECEIVING	0.02		0.02
805 / INPROCESS INSPECTION - PLANTS 1 & 2	2.00		2.00
806 / WELD ENGINEERING/ CWI / WELD ENGI	1.00		1.00
815 / CMM - GANTRY - PLANT 2 / CMM - GAN	6.00		6.00
820 / RECEIVING INSPECTION / RECEIVING I	0.25		0.25
<b>Split ID: 0 Totals:</b>	<b>176.13</b>	<b>1.37</b>	<b>174.76</b>
<b>64880/3 Totals:</b>	<b>176.13</b>	<b>1.37</b>	<b>174.76</b>
<b>Report Totals:</b>	<b>3,342.47</b>	<b>871.34</b>	<b>2,471.13</b>

Workorder: 64880/2 -split:0  
 Part: /  
 Customer: /

Quantity: 1

Engineered By: SILVER/DOUG MCCORKLE  
 Scheduled Start: 04-06-04 Sched Finish: 04/13/04  
 Release Date: 08-08-03 Want Date: 04/14/04

Resource ID / Description	Estimated Hrs	Actual Hours	Variance
<b>Split ID: 0</b>			
105 / DEBURR PLT 1 LOW BAY / DEBURR PLT	35.00	4.07	30.93
152 / TC-5000 / TC-5000	48.00		48.00
160 / 30FT MITSU / 30FT MITSU	216.00		216.00
162 / DORRIES SCHARMANN GANTRY MILL /	576.00		576.00
215 / HGIH PROGRAM / HGIH PROGRAM	4.00		4.00
260 / SANDBLAST / SANDBLAST	2.50	0.01	2.49
340 / VERNON 500 / VERNON 500	170.00		170.00
341 / PACIFIC 750 / PACIFIC 750	100.00		100.00
405 / SAWS- PLANT 2 / SAWS- PLANT 2	1.00		1.00
450 / SUBLET / SUBLET	0.00		0.00
520 / SUBLET, EXOTIC HEAT TREAT / SUBLET	0.00		0.00
700 / BLUE TEAM, ENGINEERING / BLUE TEA	75.00		75.00
751 / CAD/CAM - MEDIUM MILLING / CAD/CA	260.00		260.00
800 / RECEIVING / RECEIVING	0.10		0.10
805 / INPROCESS INSPECTION - PLANTS 1 & 2	8.00		8.00
815 / CMM - GANTRY - PLANT 2 / CMM - GAN	29.00		29.00
820 / RECEIVING INSPECTION / RECEIVING I	2.50		2.50
825 / FINAL INSPECTION - PLANTS 1 & 2 / FIN	10.00	0.83	9.17
<b>Split ID: 0 Totals:</b>	<b>1,537.10</b>	<b>4.91</b>	<b>1,532.19</b>
<b>64880/2 Totals:</b>	<b>1,537.10</b>	<b>4.91</b>	<b>1,532.19</b>