

39

39



NOVEMBER 1, 1996

TO: BOARD OF DIRECTORS

FROM: JOSEPH E. DREW, CHIEF EXECUTIVE OFFICER

SUBJECT: APPROVE AN INCREASE IN THE CONTRACT AUTHORIZATION FOR EXPENDITURE FOR THE FIRE AND EMERGENCY MANAGEMENT SYSTEMS WORK ON THE METRO RED LINE, WILSHIRE AND VERMONT/HOLLYWOOD CORRIDORS

*fe*  
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 Metropolitan  
 Transportation  
 Authority

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 Los Angeles, CA  
 90012

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**RECOMMENDATION**

Approve an increase to the Authorization for Expenditure (AFE) for Contract No. B646, Fire and Emergency Management Systems, with Syseca Inc., to fund in-process merited change orders on the Metro Red Line, Wilshire and Vermont Corridors, in the amount of \$635,000, for a revised total AFE amount of \$4,067,050.

Within Construction Committee authority     Yes  No

**ORGANIZATIONAL IMPACT**

Approval will permit project staff to negotiate and execute merited change orders promptly and thereby reduce the potential for contractor claims.

**BUDGET IMPACT**

The funds for this action are available within the Board approved project budget of \$1,640,781,000. This recommended action will increase the current contract (B646) AFE value of \$3,432,050 by \$635,000 to \$4,067,050. This recommended action will not increase the current total Contract Value. The forecast final cost, including in-process change notices and other anticipated changes for this contract is \$4,067,050. The current status of the contract, including the impact of this recommended action on contract cost and forecast, is shown in Attachment 1. Project Contingency will be reduced by \$651,000. This recommended action does not impact the MTA Fiscal Year Budget or the sources of funds, either in the Fiscal Year or over the life of the project.

Potential Cost Recovery     Yes  No

## **ALTERNATIVES CONSIDERED**

Other than denying the AFE increase, there are no viable alternatives. Should the MTA Board choose not to authorize an AFE increase to allow completion of pending and future merited change orders/claims (approved within the proper delegated authorities), the contractor will likely pursue other contractual and legal remedies.

## **BACKGROUND**

This recommended AFE increase will allow adequate funding for:

- (1) the hardware changes for the Vermont corridor that are linked with the cost-efficiency design change previously approved by the MTA Board on April 26, 1995 as Change Order No. 3.00 to the B645 TRACS contract. This was a credit change to Contract B645 but did involve a cost increase to this and other contracts. A summary of the contracts impacted and the dollar value of those impacts associated with the cost-efficiency design change is shown in Attachment 2, and
- (2) the additional unanticipated changes that were discovered to be necessary during the Wilshire Corridor System Integration Testing and the Wilshire Corridor pre-Revenue Operations activities, which are summarized in Attachment 3.

## **DBE PARTICIPATION**


The DBE goal is 6.9%. The Contract is 50% complete. The Contractor has attained 6% participation to date. It is anticipated that the Contractor will meet the goal.

## **ATTACHMENTS**

1. Contract Value Statement
2. List of Impacted Contracts
3. Primary Change Impacts
4. Pending Changes
5. Change Action Status Log

Prepared by:

Larry Kelsey, Manager of Contracts  
Stephen J. Polechronis, Deputy Executive Officer, Construction  
Metro Red Line, Wilshire and Vermont/Hollywood Corridors

  
Stanley G. Phernambucq

**ATTACHMENT 1**  
**ALLOCATED CONTRACT VALUE STATUS (R81 COSTS ONLY)**  
**R81 Metro Red Line Segment 2**  
**B646**

CONTRACTOR: SYSECA INCORPORATED - FIRE AND EMERGENCY MANAGEMENT (F&EM)  
CHANGE TITLE:

<i>CONTRACT VALUE STATUS</i>	R81 Metro Red Line - Segment 2
1. CONTRACT AWARD AMOUNT:	\$2,547,766.00
2. PREVIOUSLY EXECUTED CHANGES:	\$431,337.60
3. CURRENT CONTRACT VALUE: (1 + 2)	\$2,979,103.60
4. AUTHORIZED WACN'S NTE):	\$66,000.00
5. OBLIGATED CONTRACT VALUE (3 + 4)	\$3,045,103.60
6. VALUE OF THIS CHANGE	\$0.00
7. ESTIMATED CONTRACT VALUE: (5 + 6)	\$3,045,103.60

<i>AUTHORIZED FOR EXPENDITURE STATUS</i>	<i>AFE INCREASE REQUEST</i>		
8. MTA APPROVED AFE:	\$3,432,050.00		
9. ESTIMATED CONTRACT VALUE: (Line 7)	\$3,045,103.60		
10. REMAINING AFE (8-9)	\$386,946.40	\$0.00	For current actual changes
11. OTHER PENDING CHANGES (Merited)	\$848,397.00		
12. REMAINING AFE (w/CHANGES 10-11)	(\$461,450.60)	\$461,450.60	For all merited changes
13. ! TRENDS AND CONTINGENCIES	\$173,549.40		
14. REMAINING AFE: (w/TRENDS 12-13)	(\$635,000.00)	\$0.00	For all potential changes

<i>CONTRACT BUDGET STATUS</i>	
15. CURRENT CONTRACT BUDGET:	\$4,067,050.00
16. FORECAST CONTRACT VALUE:	\$4,067,050.00
17. REMAINING CONTRACT BUDGET: (15-16)	\$0.00

<i>CONTRACT INCREASE PERCENTAGES</i>	
18. % OF ORIGINAL AWARD VALUE (THIS CHANGE)	0.000%
19. % OF ORIGINAL AWARD VALUE (MERITED CHANGES)	52.820%
20. % OF ORIGINAL AWARD VALUE (LOGGED + TRENDS)	34.072%
21. % CONTRACT COMPLETE:	50%

REVIEWED BY MTA PROGRAM CONTROL: *R. Mora/W. Brown, Program Control*

DATE: *10/25/96*

! TREND items may be found to have no merit or be of a lesser value

rrev. 2.5 04/03/96 dbp

ATTACHMENT 1: Unallocated Contract Data

PRINTED BY: L. SIMPSON - MTA PROGRAM  
DATA AS OF 10/11/96 15:05:02

ATTACHMENT 2  
LIST OF IMPACTED CONTRACTS  
CONTRACT NO. B646, FIRE & EMERGENCY MANAGEMENT SYSTEM  
CONTRACTOR: SYSECA INCORPORATED

CONTRACT	CONTRACT NAME	CONTRACT CHANGES	COST IMPACT (\$)	STATUS
B645 (Segment 2 & 3)	Transit Auto, Controls & SCADA	Delete/Modify RTU Interface Modules	(219,082)	CO-3.00
B646 (Segment 2A)	Fire & Emergency Management	Add/Modify PLC Interface Modules	199,940	CO-6.00
B646 (Segment 2B)	Fire & Emergency Management	Add/Modify PLC Interface Modules	412,855	Estimated
B646 (Segment 3)	Fire & Emergency Management	Add/Modify PLC Interface Modules	250,000	Estimated
B620	Automatic Train Control (ATC)	Delete Wiring Distribution Equipment	(120,000)	Estimated
B648A(Segment 2A)	Communication Installation Wilshire Corridor & Gas/Seismic	Reduce Wiring/Terminations	(166,150)	Estimated
B648 (Segment 2B)	Communication Installation	Reduce Wiring/Terminations	(356,625)	Estimated
H0648(Segment 3)	Communication Installation	Reduce Wiring/Terminations	(376,650)	Estimated
STATIONS	Segment 2B (5 stations)	Reduce Wiring/Terminations	(175,000)	Estimated
STATIONS	Segment 3 (3 stations)	Reduce Wiring/Terminations	(105,000)	Estimated

Total Capital Cost Savings For Segment 2 and Segment 3 - \$ 655,712.00  
Anticipated Operating & Maintenance Cost Savings (\$30K Now x 20 Years) \$600,000.00

ATTACHMENT 3  
 CONTRACT NO. B646, FIRE & EMERGENCY MANAGEMENT SYSTEM

PRIMARY CHANGE IMPACTS

The major factors contributing to the need for this Contract No. B646 AFE increase are:

UNEXECUTED, PENDING, & ANTICIPATED CHANGES	DESCRIPTION	ESTIMATED COST
B646-CN- 41.00	ADDITIONAL TESTING SUPPORT TO ASSIST THE MTA RAIL ACTIVATION GROUP WITH INTEGRATION TESTING	\$73,930
B646-CN- 44.00	FIRE CONTROL PANEL MODIFICATIONS REQUIRED FOR THE ADDITIONAL WIRING EQUIPMENT PROCURED	\$42,200
B646-CN- 48.00	TECHNICAL SUPPORT FOR TROUBLE-SHOOTING AND DIAGNOSIS OF FIELD PROBLEMS ENCOUNTERED	\$67,000
B646-CN- 49.00 thru CN-53.00	PLC CHANGES TO FIVE VERMONT CORRIDOR STATIONS DUE TO A MAJOR DESIGN CHANGE TO THE B645 CONTRACT	\$413,000
B646-CN-54.00	REDESIGN OF BACKPLANE CONTROLS AND ADDITIONAL EQUIPMENT TO SUPPORT EMERGENCY AIR HANDLING AND SMOKE EXHAUST FANS	\$27,000
B646-CN- 55.00	UPGRADE OF THE FIRE ALARM SYSTEM TO SUPPORT ADDITIONAL SMOKE DETECTORS, PUBLIC AREA SPRINKLERS, AND SPRINKLER PIPING	\$50,000
B646-CN- 56.00	EQUIPMENT NEEDED TO MONITOR ADDITIONAL DOOR INTRUSION	\$115,000
	<b>TOTAL:</b>	<b>\$788,010</b>

ATTACHMENT 4

INCLUDES BOTH DESIGN AND CONTRACT CHANGES

TOTAL CHANGE COSTS - NOT ALLOCATED

**METRO SYSTEM**  
**R81 - Metro Red Line - Segment 2**  
**CHANGE ACTION LOG: PENDING CONTRACT CHANGES**  
 UNEXECUTED DESIGN AND CONTRACT CHANGES

AS OF: 10/15/96

CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT

**CONFIDENTIAL MATERIAL**

CO #	CN # TYPE	CHANGE TITLE DCN DESCRIPTION	LOG DATE APPROVED CN ISSUED	POTENTIAL COST RECOVERY?	ESTIMATED COST (A)	NOT-TO EXCEED AUTHORIZATION (B)	=	REMAINING COST PENDING (C)	STATUS
<b>LOGGED CONTRACT CHANGES</b>									
	30.02 ADMIN	F&EM DELIVERY MILESTONE DATE ADJUSTMENT (WILSHIRE CORRIDOR).	08/07/96		\$0.00	-	\$0.00	=	\$0.00 CN IN PROCESS
17.00	33.00 RFP	FIRE TELEPHONE SCOPE OF WORK DELETION FROM CONTRACT (B646) (R81-95-35.01)	04/27/95 06/08/95 08/09/95		(\$20,824.00)	-	\$0.00	=	(\$20,824.00) CO IN PROCESS
16.00	35.00 WA/TBN	EMERGENCY "KILL SWITCH" FOR ALL BREAKERS WITHIN THE WILSHIRE CORRIDOR	08/08/95 08/15/95 08/15/95		\$8,240.00	-	\$7,000.00	=	\$1,240.00 CO IN PROCESS
17.00	36.00 WA/TBN	PLC INTERFACE PROGRAM CHANGES/TEMP VENTILATION INDICATIONS/CONTROLS AT W/V (B215).	01/31/96 02/02/96 02/02/96		\$8,960.00	-	\$5,000.00	=	\$3,960.00 CO IN PROCESS
16.00	37.00 WA/TBN	EXTENDED OVERHEAD IN SUPPORT OF SYSTEM INTEGRATED TESTING	03/01/96 03/01/96 03/01/96		\$24,600.00	-	\$24,500.00	=	\$100.00 CO IN PROCESS
17.00	38.00 WA/TBN	ADDITIONAL POINTS FOR TRACS/TRACTION POWER SUBSYSTEM INTERFACE.	03/06/96 03/07/96 03/07/96		\$5,600.00	-	\$5,000.00	=	\$600.00 CO IN PROCESS
	39.00 RFP	EMERGENCY BACK-UP POWER SYSTEM REVISIONS (R81-96-3.00)	01/31/96 02/28/96		\$12,000.00	-	\$0.00	=	\$12,000.00 CN IN PROCESS
	40.00 RFP	WILSHIRE/VERMONT ZONE ALARM SUMMARY CHANGES/PROCUREMENT OF ETS RELAY LOGIC CARDS.	05/20/96		\$19,724.00	-	\$0.00	=	\$19,724.00 CN IN PROCESS
	41.00 RFP	EXTENDED INTEGRATION TEST SUPPORT FOR WILSHIRE CORRIDOR	06/20/96		\$73,930.00	-	\$0.00	=	\$73,930.00 CN IN PROCESS

? = CHANGE NOT ISSUED/NTE VALUE NOT OBLIGATED

CHANGE TYPE LEGEND: WA = WORK AUTHORIZATION TM = TIME/MATERIALS TBN = TO BE NEGOTIATED RFP = REQUEST-FOR-PROPOSAL SOV = SCHEDULE OF VALUES NGO = FIELD NEGOTIATED

POTENTIAL COST RECOVERY LEGEND: EO = ERROR OR OMISSION (RECOVER FROM CONTRACTOR OR CONSULTANT) BK = BACKCHARGE (RECOVER FROM ANOTHER CONTRACT) BT = BETTERMENT (RECOVER FROM ANOTHER AGENCY) LL = LESSONS LEARNED (REDUCE COST IN FUTURE CONTRACTS) IN = INSURANCE COVERAGE

**INCLUDES BOTH DESIGN AND CONTRACT CHANGES**

TOTAL CHANGE COSTS - NOT ALLOCATED

**METRO SYSTEM**  
**R81 - Metro Red Line - Segment 2**  
**CHANGE ACTION LOG: PENDING CONTRACT CHANGES**  
 UNEXECUTED DESIGN AND CONTRACT CHANGES

AS OF: 10/15/96

CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT

**CONFIDENTIAL MATERIAL**

CO #	CN # TYPE	CHANGE TITLE DCN DESCRIPTION	LOG DATE APPROVED CN ISSUED	POTENTIAL COST RECOVERY?	ESTIMATED COST (A)	NOT-TO EXCEED AUTHORIZATION (B)	=	REMAINING COST PENDING (C)	STATUS	
	42.00 WA/TBN	COMMUNICATION INTERFACE CABINET (CIC'S) BACKPLANES FOR B241 AND B252.	06/24/96 08/07/96 08/14/96		\$24,500.00	-	=	\$24,500.00	\$0.00	WACN ISSUED
	43.00 RFP	PROCUREMENT OF ADDITIONAL FIRE ALARM FIELD DEVICES AND FIRE CONTROL PANELS FOR WILSHIRE CORRIDOR STATIONS.	06/26/96		\$8,142.00	-	=	\$0.00	\$8,142.00	CN IN PROCESS
	44.00 RFP	B201/B221/B231 - FCP MODIFICATIONS FOR INSTALLATION PROBLEMS	09/05/96	EO	\$42,200.00	-	=	\$0.00	\$42,200.00	CN IN PROCESS
18.00	45.00 WA/NGO	EMP SCREEN DISPLAYS	01/08/96		\$9,690.00	-	=	\$12,500.00?	\$9,690.00	CO IN PROCESS
18.00	46.00 WA/NGO	EVOP CHANGES	08/26/96		\$14,100.00	-	=	\$0.00	\$14,100.00	CO IN PROCESS
18.00	47.00 WA/NGO	SOLENOID VALVE CONTROL SUPERVISION	09/10/96		\$11,655.00	-	=	\$13,000.00?	\$11,655.00	CO IN PROCESS
	48.00 RFP	EXTENDED TECHNICAL SUPPORT FOR WILSHIRE CORRIDOR	06/24/96		\$67,000.00	-	=	\$0.00	\$67,000.00	CN IN PROCESS
	49.00 RFP	EXPANDED PLC CAPABILITIES FOR VERMONT/BERVERLY STATION	06/24/96		\$85,740.00	-	=	\$0.00	\$85,740.00	CN IN PROCESS
	50.00 RFP	EXPANDED PLC CAPABILITIES FOR VERMONT SANTA MONICA	06/24/96		\$75,380.00	-	=	\$0.00	\$75,380.00	CN IN PROCESS
	51.00 RFP	EXPANDED PLC CAPABILITIES FOR VERMONT/SUNSET STATION	06/24/96		\$75,380.00	-	=	\$0.00	\$75,380.00	CN IN PROCESS

? = CHANGE NOT ISSUED/NTE VALUE NOT OBLIGATED

CHANGE TYPE LEGEND: WA = WORK AUTHORIZATION TM = TIME/MATERIALS TBN = TO BE NEGOTIATED RFP = REQUEST-FOR-PROPOSAL SOV = SCHEDULE OF VALUES NGO = FIELD NEGOTIATED

POTENTIAL COST RECOVERY LEGEND: EO = ERROR OR OMISSION (RECOVER FROM CONTRACTOR OR CONSULTANT) BK = BACKCHARGE (RECOVER FROM ANOTHER CONTRACT) BT = BETTERMENT (RECOVER FROM ANOTHER AGENCY) LL = LESSONS LEARNED (REDUCE COST IN FUTURE CONTRACTS) IN = INSURANCE COVERAGE



**INCLUDES BOTH DESIGN AND CONTRACT CHANGES**

TOTAL CHANGE COSTS - NOT ALLOCATED

**METRO SYSTEM**  
**R81 - Metro Red Line - Segment 2**  
**CHANGE ACTION LOG: PENDING CONTRACT CHANGES**  
 UNEXECUTED DESIGN AND CONTRACT CHANGES

AS OF: 10/15/96

CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT

**CONFIDENTIAL MATERIAL**

CO #	CN # TYPE	CHANGE TITLE DCN DESCRIPTION	LOG DATE APPROVED CN ISSUED	POTENTIAL COST RECOVERY?	ESTIMATED COST (A)	NOT-TO EXCEED AUTHORIZATION (B)	=	REMAINING COST PENDING (C)	STATUS
	52.00 RFP	EXPANDED PLC CAPABILITIES FOR HOLLYWOOD/WESTERN STATION	06/24/96		\$101,000.00	-	=	\$0.00	CN IN PROCESS
	53.00 RFP	EXPANDED PLC CAPABILITIES FOR HOLLYWOOD/VINE STATION	06/24/96		\$75,380.00	-	=	\$0.00	CN IN PROCESS
	54.00 RFP	AIR HANDLING UNITS & SMOKE EXHAUST FAN CONTROLS	10/08/96		\$27,000.00	-	=	\$0.00	CN IN PROCESS
	55.00 RFP	FIRE ALARM SYSTEM TECHNICAL UPDATE	10/08/96		\$50,000.00	-	=	\$0.00	CN IN PROCESS
	56.00 RFP	INTRUSION DETECTION SYSTEM TECHNICAL UPDATE	10/08/96		\$115,000.00	-	=	\$0.00	CN IN PROCESS
19.00	57.00 RFP	TEMP CN - OK TO OVERWRITE	10/14/96		\$0.00	-	=	\$0.00	CO IN PROCESS
<b>TOTAL PENDING LOGGED CHANGES: 25</b>					<b>\$914,397.00</b>			<b>\$66,000.00</b>	<b>\$848,397.00</b>
<b>TOTAL B646 PENDING:</b>					<b>\$914,397.00</b>			<b>\$66,000.00</b>	<b>\$848,397.00</b>

? = CHANGE NOT ISSUED/NTE VALUE NOT OBLIGATED

CHANGE TYPE LEGEND: WA = WORK AUTHORIZATION TM = TIME/MATERIALS TBN = TO BE NEGOTIATED RFP = REQUEST-FOR-PROPOSAL SOV = SCHEDULE OF VALUES NGO = FIELD NEGOTIATED

POTENTIAL COST RECOVERY LEGEND: EO = ERROR OR OMISSION (RECOVER FROM CONTRACTOR OR CONSULTANT) BK = BACKCHARGE (RECOVER FROM ANOTHER CONTRACT) BT = BETTERMENT (RECOVER FROM ANOTHER AGENCY) LL = LESSONS LEARNED (REDUCE COST IN FUTURE CONTRACTS) IN = INSURANCE COVERAGE

ATTACHMENT 5

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**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: SUMMARY**  
AS OF: 10/14/96

CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT

**CONFIDENTIAL MATERIAL**

CO #	CN #	CHANGE TITLE	LOGGED	EXECUTED	FORECAST COST	DAYS	AUTHORIZED WA/NTE	BALL IN COURT WHO/WHAT
<b>EXECUTED CHANGES</b>								
<b>EXECUTED</b>								
<b>TOTAL EXECUTED :</b>		<b>30 CN'S</b>			<b>\$431,337.60</b>	<b>142</b>	<b>\$45,000.00</b>	
<b>UNEXECUTED CHANGES</b>								
16.00	35.00	EMERGENCY "KILL SWITCH" FOR ALL BREAKERS WITHIN TH...	08/15/95		\$8,240.00	0	\$7,000.00	MTA//SIGN-OFF ON CO FILE
16.00	37.00	EXTENDED OVERHEAD IN SUPPORT OF SYSTEM INTEGRATED...	03/01/96		\$24,600.00	0	\$24,500.00	MTA//SIGN-OFF ON CO FILE
17.00	33.00	FIRE TELEPHONE SCOPE OF WORK DELETION FROM CONTRAC...	06/14/95		(\$20,824.00)	0	\$0.00	RE/CONTRACTOR/SIGN AND RETURN CO
17.00	36.00	PLC INTERFACE PROGRAM CHANGES/TEMP VENTILATION IND...	06/14/96		\$8,960.00	0	\$5,000.00	RE/CONTRACTOR/SIGN AND RETURN CO
17.00	38.00	ADDITIONAL POINTS FOR TRACS/TRACTION POWER SUBSYST...	06/14/96		\$5,600.00	0	\$5,000.00	RE/CONTRACTOR/SIGN AND RETURN CO
18.00	45.00	EMP SCREEN DISPLAYS...	07/01/96		\$9,690.00	0	\$12,500.00	CTR/CONTRACTOR/SIGN AND RETURN CO
18.00	46.00	EVOP CHANGES...	08/26/96		\$14,100.00	0	\$0.00	CTR/CONTRACTOR/SIGN AND RETURN CO
18.00	47.00	SOLENOID VALVE CONTROL SUPERVISION...	09/10/96		\$11,655.00	0	\$13,000.00	CTR/CONTRACTOR/SIGN AND RETURN CO
<b>TOTAL :</b>		<b>8 CN'S</b>			<b>\$62,021.00</b>	<b>0</b>	<b>\$67,000.00</b>	
<b>WORK AUTHORIZATION ISSUED</b>								
	42.00	COMMUNICATION INTERFACE CABINET (CIC'S) BACKPLANES...	06/24/96		\$24,500.00	0	\$24,500.00	CTR/CONTRACTOR/SIGN AND RETURN CHANGE NOTICE
<b>TOTAL WORK AUTHORIZATION ISSUED :</b>		<b>1 CN'S</b>			<b>\$24,500.00</b>	<b>0</b>	<b>\$24,500.00</b>	
<b>CHANGE IN PROCESS</b>								
	30.02	F&EM DELIVERY MILESTONE DATE ADJUSTMENT (WILSHIRE...	08/13/96		\$0.00	0	\$0.00	MTA//CA & LEGAL/ REVIEW, APPROVE, & RETURN CN
	39.00	EMERGENCY BACK-UP POWER SYSTEM REVISIONS (R81-96-3...	04/29/96		\$12,000.00	0	\$0.00	RE//ISSUE CN
	40.00	WILSHIRE/VERMONT ZONE ALARM SUMMARY CHANGES/PROCUR...	05/20/96		\$19,724.00	0	\$0.00	RE//ISSUE CN
	41.00	EXTENDED INTEGRATION TEST SUPPORT FOR WILSHIRE COR...	06/24/96		\$73,930.00	0	\$0.00	MTA//CA & LEGAL/ REVIEW, APPROVE, & RETURN CN
	43.00	PROCUREMENT OF ADDITIONAL FIRE ALARM FIELD DEVICES...	06/20/96		\$8,142.00	0	\$0.00	RE//ISSUE CN
	44.00	B201/B221/B231 - FCP MODIFICATIONS FOR INSTALLATIO...	09/06/96		\$42,200.00	0	\$0.00	MTA//CA & LEGAL/ REVIEW, APPROVE, & RETURN CN
	48.00	EXTENDED TECHNICAL SUPPORT FOR WILSHIRE CORRIDOR...	09/04/96		\$67,000.00	0	\$0.00	RE//ISSUE CN
	49.00	EXPANDED PLC CAPABILITIES FOR VERMONT/BERVERLY STA...	10/04/96		\$85,740.00	0	\$0.00	RE//ISSUE CN
	50.00	EXPANDED PLC CAPABILITIES FOR VERMONT SANTA MONICA...	10/04/96		\$75,380.00	0	\$0.00	RE//ISSUE CN
	51.00	EXPANDED PLC CAPABILITIES FOR VERMONT/SUNSET STATI...	10/04/96		\$75,380.00	0	\$0.00	RE//ISSUE CN
	52.00	EXPANDED PLC CAPABILITIES FOR HOLLYWOOD/WESTERN ST...	10/04/96		\$101,000.00	0	\$0.00	RE//ISSUE CN
	53.00	EXPANDED PLC CAPABILITIES FOR HOLLYWOOD/VINE STATI...	10/04/96		\$75,380.00	0	\$0.00	RE//ISSUE CN
	54.00	AIR HANDLING UNITS & SMOKE EXHAUST FAN CONTROLS...			\$27,000.00	0	\$0.00	RE//ISSUE CN
	55.00	FIRE ALARM SYSTEM TECHNICAL UPDATE...			\$50,000.00	0	\$0.00	RE//ISSUE CN
	56.00	INTRUSION DETECTION SYSTEM TECHNICAL UPDATE...			\$115,000.00	0	\$0.00	RE//ISSUE CN

**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: SUMMARY**  
AS OF: 10/14/96

CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT

**CONFIDENTIAL MATERIAL**

CO #	CN #	CHANGE TITLE	LOGGED	EXECUTED	FORECAST COST	DAYS	AUTHORIZED WA/NTE	BALL IN COURT WHO/WHAT
<b>CHANGE IN PROCESS</b>								
<b>TOTAL CHANGE IN PROCESS :</b>		<b>15 CN'S</b>			<b>\$827,876.00</b>	<b>0</b>	<b>\$0.00</b>	
<b>CANCELLED</b>								
	5.00	ETS SWITCH/RELAY CARD DESIGN...			\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED
	7.00	CPU EQUIPMENT - CDRL 637...			\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED
	9.00	REMOVE CONVENIENCE OUTLETS FROM AEMP (CDRL'S 655 &...			\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED
	11.00	ZONE ALARM DISPLAY SCREEN AT EMP...			\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED
	13.00	PROGRAMMABLE LOGIC CONTROLLER (PLC) CAPABILITY FOR...	06/23/94		\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED
	13.00	CIC INPUT/OUTPUT (I/O) REDUCTIONS (LESSONS LEARNED...	10/21/94		\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED
	28.00	ADDITIONAL SYSTEM HVAC EQUIPMENT CONTROLS AND SMOK...	12/22/94		\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED BY CN-28.01
	30.00	FIRE SERVICES REQUIRED CHANGES TO EMP DISPLAY...	01/04/95		\$0.00	0	\$0.00	WITHDRAWN/SUPERSEDED
	34.00	CROSSPASSAGE EXHAUST FAN FLOW SWITCH ADDITIONS...	08/16/95		\$0.00	0	\$5,000.00	WITHDRAWN/SUPERSEDED
<b>TOTAL CANCELLED :</b>		<b>9 CN'S</b>			<b>\$0.00</b>	<b>0</b>	<b>\$5,000.00</b>	

**CHANGE STATUS SUMMARY:**

AWARD VALUE:							
EXECUTED CHANGES:	15 CO'S	30 CN'S			\$3,937,039.00		
					\$431,337.60	142	
-----							
CURRENT VALUE:					\$4,368,376.60		
AUTHORIZED (NTE):		5 CN'S			\$66,000.00		
-----							
CURRENT VALUE (OBLIGATED):					\$4,434,376.60		
OTHER PENDING:		19 CN'S (EST LESS NTE AUTHORIZED)			\$848,397.00	0	
-----							
CANCELLED/WITHDRAWN:		9 CN'S			0.00		
-----							
TOTAL LOGGED:		63 CN'S			\$5,282,773.60	142	

INCLUDES BOTH DESIGN AND CONTRACT CHANGES

**METRO SYSTEM**  
**R81 - Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: PRIORITY REPORT (PROJECT SUMMARY)**  
**UNISSUED CHANGES ONLY**

AS OF: 10/14/96

NEED DATE CATEGORY	CN'S	CHANGE TOTALS		PERCENT	FORECAST		AUTHORIZED NTE	
		DCN'S			COST	DAYS		
NEED DATE NOT IDENTIFIED	: 9 CN'S+0	(0)	DCN'S =	9	60.0%	\$671,880.00	0	\$0.00
PAST NEED DATE	: 6 CN'S+0	(0)	DCN'S =	6	40.0%	\$155,996.00	0	\$0.00
<b>PROJECT R81 TOTAL:</b>		<b>15 CN'S+0</b>	<b>(0) DCN'S =</b> <small>(Base DCN's)</small>	<b>15</b>		<b>\$827,876.00</b>		<b>\$0.00</b>

13

INCLUDES BOTH DESIGN AND CONTRACT CHANGES

TOTAL CHANGE COSTS - NOT ALLOCATED

**METRO SYSTEM**  
**R81 - Metro Red Line - Segment 2**  
**CHANGE ACTION LOG: PENDING CONTRACT CHANGES COST SUMMARY**  
UNEXECUTED DESIGN AND CONTRACT CHANGES

AS OF: 10/14/96

**CONFIDENTIAL MATERIAL**

CONTRACT			PENDING CN COST (A)	+	PENDING DCN COST (B)	=	TOTAL PENDING (C)
B646	24 CNS	0 DCNS	\$848,397.00	+	\$0.00	=	\$848,397.00
R81	24 CNS	0 DCNS	\$848,397.00		\$0.00		\$848,397.00

? = CHANGE NOT ISSUED/NTE VALUE NOT OBLIGATED

**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: SUMMARY**  
AS OF: 10/14/96

CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT

**CONFIDENTIAL MATERIAL**

CO #	CN #	CHANGE TITLE	LOGGED	EXECUTED	FORECAST COST	DAYS	AUTHORIZED WA/NTE	BALL IN COURT WHO/WHAT
<b>EXECUTED CHANGES</b>								
<b>EXECUTED</b>								
1.00	1.00	DELETE SPECIAL PROVISIONS SP-20 (PERFORMANCE BOND)...	12/21/93	07/20/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
2.00	2.00	AMENDED CDRL REFERENCES...	02/01/94	06/13/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
2.00	3.00	REQUIRED METRO REDLINE INFORMATION...	02/11/94	06/13/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
2.00	4.00	SUBMITTAL DATE/PARAGRAPH DESCRIPTION/TITLE CHANGES...	02/15/94	06/13/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
2.00	6.00	TEST CDRL'S SUBMITTAL CLARIFICATIONS...	03/22/94	06/13/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
2.00	6.01	TEST CDRL'S SUBMITTAL CLARIFICATIONS...	06/09/94	06/13/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
2.00	8.00	NEW CDRL'S FOR FTCL AND ETS...	06/09/94	06/13/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
3.00	16.00	CORPORATE CHANGE OF NAME FROM "AXYAL CORPORATION"...	07/15/94	08/12/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
3.00	16.01	CORPORATE CHANGE OF NAME FROM "AXYAL CORPORATION"...	07/20/94	08/12/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
4.00	10.00	ACTUAL DATES FOR SPECIAL PROVISIONS, PART C, APPEN...	06/09/94	11/28/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
4.00	14.00	SAFETY AND SYSTEMS ASSURANCE (S&SA) REQUIREMENTS...	06/30/94	11/28/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
4.00	17.00	CONSOLIDATION OF CDRL'S FROM PDR REQUIREMENT TO FD...	08/15/94	11/28/94	\$0.00	0	\$0.00	COMPLETE/NO ACTION
5.00	18.00	STAGE 1A DELIVERY DATES...	08/24/94	02/07/95	\$0.00	0	\$0.00	COMPLETE/NO ACTION
6.00	13.01	PROGRAMMABLE LOGIC CONTROLLER (PLC) CAPABILITY FOR...	09/07/94	05/08/95	\$199,940.00	42	\$25,000.00	COMPLETE/NO ACTION
7.00	23.00	DELETION OF STATION COMMAND POSTS (SCP) AT CROSSPA...	10/28/94	03/08/95	(\$3,354.00)	0	\$0.00	COMPLETE/NO ACTION
8.00	19.00	EMERGENCY TRACK POWER TRIPPING REQUIREMENTS AND ET...	09/16/94	02/24/95	\$5,051.00	0	\$0.00	COMPLETE/NO ACTION
8.00	24.00	DELETE LOCKS FROM BLUE LIGHT STATION CABINETS (B64...	10/28/94	02/24/95	\$3,830.00	0	\$0.00	COMPLETE/NO ACTION
8.00	26.00	ADD SMOKE DETECTORS FOR ESCALATORS ADDED IN VERMON...	12/12/94	02/24/95	\$243.60	0	\$0.00	COMPLETE/NO ACTION
		TOTAL CO 8.00 VALUE:			\$9,124.60			
9.00	25.00	RECONFIGURATION OF THE FIRE SUPPRESSION PIT MONITO...	02/07/95	06/19/95	\$0.00	0	\$0.00	COMPLETE/NO ACTION
10.00	30.01	FIRE SERVICES REQUIRED CHANGES TO EMP DISPLAY...	06/14/95	09/22/95	\$45,360.00	100	\$20,000.00	COMPLETE/NO ACTION
11.00	12.00	REMOVE PRE-ACTION SPRINKLER SYSTEMS (PSP) FROM AUX...	09/23/94	09/27/95	\$6,462.00	0	\$0.00	//COMPLETE/NO ACTION
11.00	15.00	AUTOMATIC SPRINKLER SYSTEM INSTALLATION IN UNDERGR...	09/16/94	09/27/95	\$40,485.00	0	\$0.00	//COMPLETE/NO ACTION
		TOTAL CO 11.00 VALUE:			\$46,947.00			
12.00	21.00	DELETION OF CONVENIENCE OUTLETS FROM EQUIPMENT PAN...	09/27/94	09/20/95	\$1,979.00	0	\$0.00	COMPLETE/NO ACTION
12.00	22.00	CHANGE OF SYSTEMWIDE DOOR UNLOCK CONTROL AND CHANG...	09/27/94	09/20/95	\$1,681.00	0	\$0.00	COMPLETE/NO ACTION
12.00	27.00	EQUIPMENT COUNT REVISIONS FOR INTRUSION DETECTION...	03/14/95	09/20/95	\$9,000.00	0	\$0.00	COMPLETE/NO ACTION
		TOTAL CO 12.00 VALUE:			\$12,660.00			
13.00	28.01	ADDITIONAL SYSTEM HVAC EQUIPMENT CONTROLS AND SMOK...	02/21/95	01/16/96	\$62,493.00	0	\$0.00	//COMPLETE/NO ACTION
14.00	31.00	REROUTING OF ESCALATOR & ELEVATOR CONTROLS AND IND...	04/20/95	09/27/95	\$33,258.00	0	\$0.00	//COMPLETE/NO ACTION
14.00	32.00	SUBMITTAL DELETIONS, DATE CHANGES FOR SUBMISSION O...	05/15/95	09/27/95	\$0.00	0	\$0.00	//COMPLETE/NO ACTION
		TOTAL CO 14.00 VALUE:			\$33,258.00			
15.00	20.00	INTRUSION DETECTION SYSTEM INTERFACE CHANGES (B646...	09/27/94	07/09/96	\$19,990.00	0	\$0.00	MTA//SIGN-OFF ON CO FILE
15.00	29.00	KEY LOCKS FOR TC&C ROOM, FTCL, EMP, SCP AND AEMP C...	01/16/95	07/09/96	\$4,919.00	0	\$0.00	MTA//SIGN-OFF ON CO FILE
		TOTAL CO 15.00 VALUE:			\$24,909.00			

**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: DETAIL**  
AS OF: 10/14/96

**CONFIDENTIAL MATERIAL**

**CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT (F&E)**  
**CONTRACTOR: SYSECA INCORPORATED**

**AWARD VALUE: \$3,937,039.00**

**RE: W. E. Unger, Resident Engineer**

CO # TYPE	CN # TYPE	CLM#	CHANGE TITLE ORIGINATOR / LOG DATE / PRIORITY	CN LOGGED APPROVED CN ISSUED	NEGOTIATED CO ISSUED CO EXECUTED	CURRENT ESTIMATE*		COST HISTORY			BALL IN COURT	
						COST	DAYS	ESTIMATED	AUTHORIZED	WHO/WHAT		
<b>EXECUTED</b>												
						<b>ACTUAL</b>						
1.00 BIL	1.00 WA/NGO		DELETE SPECIAL PROVISIONS SP-20 (PERFORMANCE BOND) RE 12/21/93 R	-12/21/93 -12/21/93 -12/21/93	12/21/93 07/15/94 07/20/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
2.00 BIL	2.00 WA/NGO		AMENDED CDRL REFERENCES RE 02/01/94 R	-02/01/94 -02/07/94 -02/07/94	02/01/94 06/09/94 06/13/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
2.00 BIL	3.00 WA/NGO		REQUIRED METRO REDLINE INFORMATION RE 02/02/94 R	-02/02/94 -02/14/94	02/04/94 06/09/94 06/13/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
2.00 BIL	4.00 WA/TBN		SUBMITTAL DATE/PARAGRAPH DESCRIPTION/TITLE CHANGES RE 02/15/94 R	-02/15/94 -02/15/94 -02/15/94	02/15/94 06/09/94 06/13/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
2.00 BIL	6.00 WA/NGO		TEST CDRL'S SUBMITTAL CLARIFICATIONS EMC 03/22/94 R	-03/22/94 -03/22/94 -03/22/94	03/22/94 06/09/94 06/13/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
2.00 BIL	6.01 WA/NGO		TEST CDRL'S SUBMITTAL CLARIFICATIONS RE 05/16/94 R	-05/16/94 -06/13/94 -06/13/94	05/16/94 06/09/94 06/13/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
2.00 BIL	8.00 WA/NGO		NEW CDRL'S FOR FTLE AND ETS RE 04/13/94 R	-04/13/94 -06/13/94 -06/13/94	05/24/94 06/09/94 06/13/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
			Total CO 2.00:			\$0.00						
3.00 BIL	16.00 WA/NGO		CORPORATE CHANGE OF NAME FROM "AXYAL CORPORATION" TO "SYSECA INCORPORATED" RE 07/15/94 R	-07/15/94 -07/21/94 -07/15/94	07/18/94 08/08/94 08/12/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
3.00 BIL	16.01 WA/NGO		CORPORATE CHANGE OF NAME FROM "AXYAL CORPORATION" TO "SYSECA INCORPORATED" RE 07/20/94 R	-07/20/94 -07/29/94 -07/20/94	07/21/94 08/08/94 08/12/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
			Total CO 3.00:			\$0.00						
4.00 BIL	10.00 WA/ADM		ACTUAL DATES FOR SPECIAL PROVISIONS, PART C, APPENDIX A, TABLE-1 RE 06/08/94 R	-06/08/94 -08/09/94 -08/19/94	06/09/94 09/21/94 11/28/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION

\* ESTIMATED COST: SELECTS THE CURRENT ESTIMATE IN THE FOLLOWING ORDER: 1) FINAL OR NEGOTIATED COST 2) FAIR COST ESTIMATE 3) ROM COST ESTIMATE

? = WA CHANGE NOT ISSUED/NTE NOT OBLIGATED

Include all records



**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: DETAIL**  
AS OF: 10/14/96

**CONFIDENTIAL MATERIAL**

**CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT (F&E)**  
**CONTRACTOR: SYSECA INCORPORATED**

**AWARD VALUE: \$3,937,039.00**

**RE: W. E. Unger, Resident Engineer**

CO # TYPE	CN # TYPE	CLM#	CHANGE TITLE ORIGINATOR / LOG DATE / PRIORITY	CN LOGGED APPROVED CN ISSUED	NEGOTIATED CO ISSUED CO EXECUTED	CURRENT ESTIMATE*		COST HISTORY			BALL IN COURT	
						COST	DAYS	ESTIMATED	AUTHORIZED	WHO/WHAT		
<b>EXECUTED</b>												
4.00 BIL	14.00 WA/TBN		SAFETY AND SYSTEMS ASSURANCE (S&SA) REQUIREMENTS RE 06/28/94 R	-06/28/94 -07/07/94 -07/06/94	06/30/94 08/21/94 11/28/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
4.00 BIL	17.00 WA/ADM		CONSOLIDATION OF CDRL'S FROM PDR REQUIREMENT TO FDR REQUIREMENT RE 08/10/94 R	-08/10/94 -08/19/94 -08/18/94	08/15/94 09/21/94 11/28/94	\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
Total CO 4.00:						\$0.00						
5.00 BIL	18.00 WA/ADM		STAGE 1A DELIVERY DATES RE 08/23/94 R	-08/23/94 -10/24/94 -11/02/94	08/23/94 12/07/94 02/07/95	\$0.00	0	ROM FCE COP	\$0.00 TBD \$0.00	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION
6.00 BIL	13.01 WA/TBN		PROGRAMMABLE LOGIC CONTROLLER (PLC) CAPABILITY FOR ADDITIONAL STATION FUNCTIONS RE 09/06/94 U	-09/06/94 -10/17/94 -10/17/94	12/22/94 03/17/95 05/08/95	\$199,940.00	42	ROM FCE COP	\$158,000.00 \$171,804.00 \$578,765.00	NTE NGO	\$25,000.00 \$199,940.00	COMPLETE/NO ACTION
7.00 BIL	23.00 RFP		DELETION OF STATION COMMAND POSTS (SCP) AT CROSSPASSAGES WITH EMERGENCY EXITS (B646-CN-23.00/B648A-CN-4.00/R81-94-153) EMC 10/20/94 R	-10/20/94 -10/28/94 -11/28/94	02/07/95 03/01/95 03/08/95	(\$3,354.00)	0	ROM FCE COP	(\$6,500.00) \$-7,500.00 \$-2,329.00	NTE NGO	\$0.00 \$-3,354.00	COMPLETE/NO ACTION
8.00 BIL	19.00 WA/TBN		EMERGENCY TRACK POWER TRIPPING REQUIREMENTS AND ETS WIRING REQUIREMENTS (B646)(R81-94-75) EMC 06/13/94 R	-06/13/94 -09/16/94 -09/19/94	02/07/95 02/17/95 02/24/95	\$5,051.00	0	ROM FCE COP	\$11,000.00 \$4,462.00 \$5,420.00	NTE NGO	\$0.00 \$5,051.00	COMPLETE/NO ACTION
8.00 BIL	24.00 RFP		DELETE LOCKS FROM BLUE LIGHT STATION CABINETS (B646-CN-024/R81-94-156) EMC 10/20/94 R	-10/20/94 -10/28/94 -11/22/94	02/07/95 02/17/95 02/24/95	\$3,830.00	0	ROM FCE COP	(\$1,800.00) \$3,830.00 \$4,706.00	NTE NGO	\$0.00 \$3,830.00	COMPLETE/NO ACTION
8.00 BIL	26.00 RFP		ADD SMOKE DETECTORS FOR ESCALATORS ADDED IN VERMONT/HOLLYWOOD STATIONS EMC 10/20/94 R	-10/20/94 -12/12/94 -12/30/94	02/07/95 02/17/95 02/24/95	\$243.60	0	ROM FCE COP	\$218.40 \$243.60 \$243.60	NTE NGO	\$0.00 \$243.60	COMPLETE/NO ACTION
Total CO 8.00:						\$9,124.60						
9.00 BIL	25.00 WA/ADM		RECONFIGURATION OF THE FIRE SUPPRESSION PIT MONITORING DEVICES RE 12/09/94 R	-12/09/94 -02/09/95 -02/09/95	02/07/95 06/08/95 06/19/95	\$0.00	0	ROM FCE COP	\$0.00 \$0.00 \$0.00	NTE NGO	\$0.00 \$0.00	COMPLETE/NO ACTION

\* ESTIMATED COST: SELECTS THE CURRENT ESTIMATE IN THE FOLLOWING ORDER: 1) FINAL OR NEGOTIATED COST 2) FAIR COST ESTIMATE 3) ROM COST ESTIMATE ? = WA CHANGE NOT ISSUED/NTE NOT OBLIGATED

Include all records

**METRO SYSTEM**  
**R81 - Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: DETAIL**

**CONFIDENTIAL MATERIAL**

**CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT (F&E)**  
**CONTRACTOR: SYSECA INCORPORATED**

AS OF: 10/14/96

**AWARD VALUE: \$3,937,039.00**

**RE: W. E. Unger, Resident Engineer**

CO # TYPE	CN # TYPE	CLM#	CHANGE TITLE ORIGINATOR / LOG DATE / PRIORITY	CN LOGGED APPROVED CN ISSUED	NEGOTIATED CO ISSUED CO EXECUTED	CURRENT ESTIMATE*		COST HISTORY			BALL IN COURT	
						COST	DAYS	ESTIMATED	AUTHORIZED	WHO/WHAT		
<b>EXECUTED</b>												
10.00 BIL	30.01 WA/TBN		FIRE SERVICES REQUIRED CHANGES TO EMP DISPLAY RE 06/14/95 R	-06/14/95 -07/27/95 -07/28/95	09/06/95 09/11/95 09/22/95	\$45,360.00	100	ROM FCE COP	\$18,000.00 \$41,888.00 \$56,135.00	NTE NGO	\$20,000.00 \$45,360.00	COMPLETE/NO ACTION
11.00 BIL	12.00 RFP		REMOVE PRE-ACTION SPRINKLER SYSTEMS (PSP) FROM AUX. POWER ROOMS (APR), CLARIFY PSP/DELUGE SPEC., AND REVISE FIRE RATING OF APR DOOR, WALL AND DAMPER RE 06/23/94 R	-06/23/94 -04/07/94 -11/18/94	07/12/95 09/13/95 09/27/95	\$6,462.00	0	ROM FCE COP	(\$5,000.00) \$7,615.60 \$26,743.43	NTE NGO	\$0.00 \$6,462.00	//COMPLETE/NO ACTION
11.00 BIL	15.00 WA/TBN		AUTOMATIC SPRINKLER SYSTEM INSTALLATION IN UNDERGROUND STATION PUBLIC AREAS RE 05/26/94 U	-05/26/94 -06/02/94 -09/19/94	07/12/95 09/13/95 09/27/95	\$40,485.00	0	ROM FCE COP	\$18,000.00 \$25,539.00 \$41,214.57	NTE NGO	\$0.00 \$40,485.00	//COMPLETE/NO ACTION
			Total CO 11.00:			\$46,947.00						
12.00 BIL	21.00 WA/TBN		DELETION OF CONVENIENCE OUTLETS FROM EQUIPMENT PANELS (B646)(R81-94-80) EMC 06/15/94 R	-06/15/94 -09/27/94 -11/22/94	07/12/95 09/13/95 09/20/95	\$1,979.00	0	ROM FCE COP	\$350.00 \$6,198.00 \$8,507.66	NTE NGO	\$0.00 \$1,979.00	COMPLETE/NO ACTION
12.00 BIL	22.00 RFP		CHANGE OF SYSTEMWIDE DOOR UNLOCK CONTROL AND CHANGE OF ELECTRIC LOCK INTERFACE FROM FAIL SAFE TO FAIL SECURE RE 09/20/94 R	-09/20/94 -09/27/94 -11/22/94	07/12/95 09/13/95 09/20/95	\$1,681.00	0	ROM FCE COP	\$4,000.00 \$4,119.00 \$3,938.00	NTE NGO	\$0.00 \$1,681.00	COMPLETE/NO ACTION
12.00 BIL	27.00 RFP		EQUIPMENT COUNT REVISIONS FOR INTRUSION DETECTION SYSTEM IN WILSHIRE CORRIDOR STATIONS RE 12/22/94 R	-12/22/94 -03/14/95 -03/14/95	07/12/95 09/13/95 09/20/95	\$9,000.00	0	ROM FCE COP	\$3,978.00 \$7,811.00 \$9,573.00	NTE NGO	\$0.00 \$9,000.00	COMPLETE/NO ACTION
			Total CO 12.00:			\$12,660.00						
13.00 BIL	28.01 RFP		ADDITIONAL SYSTEM HVAC EQUIPMENT CONTROLS AND SMOKE DETECTION FOR ADDED FSDS, EFS, & SFS AT WILSHIRE CORRIDOR STATIONS. (R81-94-150.01) EMC 01/19/95 U	-01/19/95 -01/26/94 -02/22/95	07/12/95 09/14/95 01/16/96	\$62,493.00	0	ROM FCE COP	\$7,920.80 \$47,485.80 \$78,467.00	NTE NGO	\$0.00 \$62,493.00	//COMPLETE/NO ACTION
14.00 BIL	31.00 WA/TBN		REROUTING OF ESCALATOR & ELEVATOR CONTROLS AND INDICATIONS (MULTI) (R81-95- 21.00) EMC 02/09/95 R	-02/09/95 -03/14/95 -04/24/95	07/12/95 09/13/95 09/27/95	\$33,258.00	0	ROM FCE COP	\$18,300.00 \$15,477.00 \$37,260.00	NTE NGO	\$0.00 \$33,258.00	//COMPLETE/NO ACTION

\* ESTIMATED COST: SELECTS THE CURRENT ESTIMATE IN THE FOLLOWING ORDER: 1) FINAL OR NEGOTIATED COST 2) FAIR COST ESTIMATE 3) ROM COST ESTIMATE

? = WA CHANGE NOT ISSUED/NTE NOT OBLIGATED

Include all records

**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: DETAIL**  
AS OF: 10/14/96

**CONFIDENTIAL MATERIAL**

**CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT (F&E)**  
**CONTRACTOR: SYSECA INCORPORATED**

**AWARD VALUE: \$3,937,039.00**

**RE: W. E. Unger, Resident Engineer**

CO # TYPE	CN # TYPE	CLM#	CHANGE TITLE ORIGINATOR / LOG DATE / PRIORITY	CN LOGGED APPROVED CN ISSUED	NEGOTIATED CO ISSUED CO EXECUTED	CURRENT ESTIMATE*		COST HISTORY			BALL IN COURT	
						COST	DAYS	ESTIMATED	AUTHORIZED	WHO/WHAT		
<b>EXECUTED</b>												
14.00 BIL	32.00 WA/ADM		SUBMITTAL DELETIONS, DATE CHANGES FOR SUBMISSION OF SUBMITTALS	-05/08/95 -05/15/95 -05/15/95	05/15/95 09/13/95 09/27/95	\$0.00	0	ROM FCE COP	\$0.00 \$0.00 \$0.00	NTE NGO	\$0.00 \$0.00	//COMPLETE/NO ACTION
RE			05/08/95 R									
Total CO 14.00:						\$33,258.00						
15.00 BIL	20.00 RFP		INTRUSION DETECTION SYSTEM INTERFACE CHANGES (B646)(R81-94-78)	-09/26/94 -09/26/94 -11/22/94	05/31/96 07/01/96 07/09/96	\$19,990.00	0	ROM FCE COP	(\$2,000.00) \$18,633.00 \$21,838.00	NTE NGO	\$0.00 \$19,990.00	MTA//SIGN-OFF ON CO FILE
RE			09/26/94 R									
15.00 BIL	29.00 RFP		KEY LOCKS FOR TC&C ROOM, FTCL, EMP, SCP AND AEMP CABINETS	-12/28/94 -01/16/95 -01/16/95	07/12/95 07/01/96 07/09/96	\$4,919.00	0	ROM FCE COP	\$10,000.00 \$10,728.00 \$12,181.00	NTE NGO	\$0.00 \$4,919.00	MTA//SIGN-OFF ON CO FILE
RE			12/28/94 R									
Total CO 15.00:						\$24,909.00						
<b>TOTAL EXECUTED</b>				: 30 CN'S		\$431,337.60	142				\$431,337.60	
<b>CO IN PROCESS</b>												
16.00 BIL	35.00 WA/TBN		EMERGENCY "KILL SWITCH" FOR ALL BREAKERS WITHIN THE WILSHIRE CORRIDOR	-08/08/95 -08/15/95 -08/15/95	05/31/96 07/02/96	\$8,240.00	0	ROM FCE COP	\$10,000.00 \$7,488.00 \$9,022.00	NTE NGO	\$7,000.00 \$8,240.00	MTA//SIGN-OFF ON CO FILE
RE			08/08/95 U									
16.00 BIL	37.00 WA/TBN		EXTENDED OVERHEAD IN SUPPORT OF SYSTEM INTEGRATED TESTING	-03/01/96 -03/01/96 -03/01/96	05/31/96 07/02/96	\$24,600.00	0	ROM FCE COP	\$24,500.00 \$24,640.00 \$24,300.00	NTE NGO	\$24,500.00 \$24,600.00	MTA//SIGN-OFF ON CO FILE
RE			03/01/96 U									
Total CO 16.00:						\$32,840.00						
17.00 BIL	33.00 RFP		FIRE TELEPHONE SCOPE OF WORK DELETION FROM CONTRACT (B646) (R81-95-35.01)	-04/27/95 -06/08/95 -08/09/95	08/13/96 09/12/96	(\$20,824.00)	0	ROM FCE COP	(\$12,500.00) \$-30,592.00 \$-12,200.00	NTE NGO	\$0.00 \$-20,824.00	RE/CONTRACTOR/SIGN AND RETURN CO
EMC			04/27/95 R									
17.00 BIL	36.00 WA/TBN		PLC INTERFACE PROGRAM CHANGES/TEMP VENTILATION INDICATIONS/CONTROLS AT W/V (B215).	-01/31/96 -02/02/96 -02/02/96	08/13/96 09/12/96	\$8,960.00	0	ROM FCE COP	\$6,000.00 TBD \$11,648.00	NTE NGO	\$5,000.00 \$8,960.00	RE/CONTRACTOR/SIGN AND RETURN CO
RE			01/31/96 R									
17.00 BIL	38.00 WA/TBN		ADDITIONAL POINTS FOR TRACS/TRACTION POWER SUBSYSTEM INTERFACE.	-03/06/96 -03/07/96 -03/07/96	08/13/96 09/12/96	\$5,600.00	0	ROM FCE COP	\$5,000.00 \$5,000.00 \$6,720.00	NTE NGO	\$5,000.00 \$5,600.00	RE/CONTRACTOR/SIGN AND RETURN CO
RE			03/06/96 U									

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Include all records

**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: DETAIL**  
AS OF: 10/14/96

**CONFIDENTIAL MATERIAL**

**CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT (F&EM)**  
**CONTRACTOR: SYSECA INCORPORATED**

**AWARD VALUE: \$3,937,039.00**

**RE: W. E. Unger, Resident Engineer**

CO # TYPE	CN # TYPE	CLM#	CHANGE TITLE ORIGINATOR / LOG DATE / PRIORITY	CN LOGGED APPROVED CN ISSUED	NEGOTIATED CO ISSUED CO EXECUTED	CURRENT ESTIMATE*		COST HISTORY			BALL IN COURT	
						COST	DAYS	ESTIMATED	AUTHORIZED	WHO/WHAT		
<b>CO IN PROCESS</b>						<b>ESTIMATED</b>						
Total CO 17.00:			(\$6,264.00)									
18.00 BIL	45.00 WA/NGO		EMP SCREEN DISPLAYS RE 01/08/96 R	-01/08/96 .	09/18/96 09/26/96	\$9,690.00	0	ROM FCE COP	\$12,500.00 \$0.00 \$15,736.00	NTE NGO	\$12,500.00? \$9,690.00	CTR/CONTRACTOR/SIGN AND RETURN CO
18.00 BIL	46.00 WA/NGO		EVOP CHANGES RE 08/26/96 R	-08/26/96 .	09/25/96 09/26/96	\$14,100.00	0	ROM FCE COP	\$14,100.00 \$0.00 \$14,100.00	NTE NGO	\$0.00 \$14,100.00	CTR/CONTRACTOR/SIGN AND RETURN CO
18.00 BIL	47.00 WA/NGO		SOLENOID VALVE CONTROL SUPERVISION RE 09/10/96 R	-09/10/96 .	09/10/96 09/26/96	\$11,655.00	0	ROM FCE COP	\$13,000.00 TBD \$15,310.00	NTE NGO	\$13,000.00? \$11,655.00	CTR/CONTRACTOR/SIGN AND RETURN CO
Total CO 18.00:			\$35,445.00									
<b>TOTAL CO IN PROCESS</b>						<b>\$62,021.00</b>	<b>0</b>			<b>\$67,000.00</b>		
<b>WORK AUTHORIZATION ISSUED</b>						<b>ESTIMATED</b>						
	42.00 WA/TBN		COMMUNICATION INTERFACE CABINET (CIC'S) BACKPLANES FOR B241 AND B252. RE 06/24/96 U	-06/24/96 -08/07/96 -08/14/96		\$24,500.00	0	ROM FCE COP	\$24,500.00 TBD TBD	NTE NGO	\$24,500.00 TBD	CTR/CONTRACTOR/SIGN AND RETURN CHANGE NOTICE
<b>TOTAL WORK AUTHORIZATION ISSUED</b>						<b>\$24,500.00</b>	<b>0</b>			<b>\$24,500.00</b>		
<b>CHANGE IN PROCESS</b>						<b>ESTIMATED</b>						
	30.02 WA/ADM		F&EM DELIVERY MILESTONE DATE ADJUSTMENT (WILSHIRE CORRIDOR). RE 08/07/96 U	-08/07/96 .		\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 TBD	MTA//CA & LEGAL/ REVIEW, APPROVE, & RETURN CN
	39.00 RFP		EMERGENCY BACK-UP POWER SYSTEM REVISIONS (R81-96-3.00) EMC 01/31/96 R	-01/31/96 -02/28/96 .		\$12,000.00	0	ROM FCE COP	\$12,000.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
	40.00 RFP		WILSHIRE/VERMONT ZONE ALARM SUMMARY CHANGES/PROCUREMENT OF ETS RELAY LOGIC CARDS. RE 05/20/96 R	-05/20/96 .		\$19,724.00	0	ROM FCE COP	\$19,724.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
	41.00 RFP		EXTENDED INTEGRATION TEST SUPPORT FOR WILSHIRE CORRIDOR RE 06/20/96 U	-06/20/96 .		\$73,930.00	0	ROM FCE COP	\$73,930.00 TBD TBD	NTE NGO	\$0.00 TBD	MTA//CA & LEGAL/ REVIEW, APPROVE, & RETURN CN

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Include all records

**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: DETAIL**  
AS OF: 10/14/96

**CONFIDENTIAL MATERIAL**

**CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT (F&E)**  
**CONTRACTOR: SYSECA INCORPORATED**

**AWARD VALUE: \$3,937,039.00**

**RE: W. E. Unger, Resident Engineer**

CO # TYPE	CN # TYPE	CLM#	CHANGE TITLE ORIGINATOR / LOG DATE / PRIORITY	CN LOGGED APPROVED CN ISSUED	NEGOTIATED CO ISSUED CO EXECUTED	CURRENT ESTIMATE*		COST HISTORY			BALL IN COURT	
						COST	DAYS	ESTIMATED	AUTHORIZED	WHO/WHAT		
<b>CHANGE IN PROCESS</b>												
	43.00 RFP		PROCUREMENT OF ADDITIONAL FIRE ALARM FIELD DEVICES AND FIRE CONTROL PANELS FOR WILSHIRE CORRIDOR STATIONS.	-06/26/96	.	\$8,142.00	0	ROM FCE COP	\$8,142.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 06/26/96 R									
	44.00 RFP		B201/B221/B231 - FCP MODIFICATIONS FOR INSTALLATION PROBLEMS	-09/05/96	.	\$42,200.00	0	ROM FCE COP	\$42,200.00 \$42,200.00 TBD	NTE NGO	\$0.00 TBD	MTA//CA & LEGAL/ REVIEW, APPROVE, & RETURN CN
			RE 09/05/96 U									
	48.00 RFP		EXTENDED TECHNICAL SUPPORT FOR WILSHIRE CORRIDOR	-06/24/96	.	\$67,000.00	0	ROM FCE COP	\$67,000.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 06/24/96 R									
	49.00 RFP		EXPANDED PLC CAPABILITIES FOR VERMONT/BERVERLY STATION	-06/24/96	.	\$85,740.00	0	ROM FCE COP	\$85,740.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 06/24/96 R									
	50.00 RFP		EXPANDED PLC CAPABILITIES FOR VERMONT SANTA MONICA	-06/24/96	.	\$75,380.00	0	ROM FCE COP	\$75,380.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 06/24/96 R									
	51.00 RFP		EXPANDED PLC CAPABILITIES FOR VERMONT/SUNSET STATION	-06/24/96	.	\$75,380.00	0	ROM FCE COP	\$75,380.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 06/24/96 R									
	52.00 RFP		EXPANDED PLC CAPABILITIES FOR HOLLYWOOD/WESTERN STATION	-06/24/96	.	\$101,000.00	0	ROM FCE COP	\$101,000.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 06/24/96 R									
	53.00 RFP		EXPANDED PLC CAPABILITIES FOR HOLLYWOOD/VINE STATION	-06/24/96	.	\$75,380.00	0	ROM FCE COP	\$75,380.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 06/24/96 R									
	54.00 RFP		AIR HANDLING UNITS & SMOKE EXHAUST FAN CONTROLS	-10/08/96	.	\$27,000.00	0	ROM FCE COP	\$27,000.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 10/08/96 R									
	55.00 RFP		FIRE ALARM SYSTEM TECHNICAL UPDATE	-10/08/96	.	\$50,000.00	0	ROM FCE COP	\$50,000.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
			RE 10/08/96 R									

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Include all records

**METRO SYSTEM**  
**R81- Metro Red Line - Segment 2**  
**CHANGE ACTION STATUS LOG: DETAIL**  
AS OF: 10/14/96

**CONFIDENTIAL MATERIAL**

**CONTRACT: B646 FIRE AND EMERGENCY MANAGEMENT (F&EM)**  
**CONTRACTOR: SYSECA INCORPORATED**

**AWARD VALUE: \$3,937,039.00**

**RE: W. E. Unger, Resident Engineer**

CO # TYPE	CN # TYPE	CLM#	CHANGE TITLE ORIGINATOR / LOG DATE / PRIORITY	CN LOGGED APPROVED CN ISSUED	NEGOTIATED CO ISSUED CO EXECUTED	CURRENT ESTIMATE*		COST HISTORY			BALL IN COURT	
						COST	DAYS	ESTIMATED	AUTHORIZED	WHO/WHAT		
<b>CHANGE IN PROCESS</b>												
						<u>ESTIMATED</u>						
	56.00 RFP		INTRUSION DETECTION SYSTEM TECHNICAL UPDATE RE 10/08/96 R	-10/08/96		\$115,000.00	0	ROM FCE COP	\$115,000.00 TBD TBD	NTE NGO	\$0.00 TBD	RE//ISSUE CN
<b>TOTAL CHANGE IN PROCESS</b>						<b>\$827,876.00</b>	<b>0</b>				<b>\$0.00</b>	
<b>CANCELLED</b>												
						<u>ESTIMATED</u>						
	5.00 RFP		ETS SWITCH/RELAY CARD DESIGN EMC 03/04/94 R	-03/04/94		\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED WILL GENERATE CN BASED UPON TECH. INFO. SUPPLIED BY PUM
	7.00 WA/ADM		CPU EQUIPMENT - CDRL 637 RE 04/08/94 R	-04/08/94		\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED WILL GENERATE NEW CN BASED ON TECH. INFO. SUPPLIED BY PUM
	9.00 WA/TBN		REMOVE CONVENIENCE OUTLETS FROM AEMP (CDRL'S 655 & 656) RE 05/31/94 R	-05/31/94		\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED WILL GENERATE NEW CN BASED ON TECH. INFO. SUPPLIED BY PUM
	11.00 RFP		ZONE ALARM DISPLAY SCREEN AT EMP RE 06/17/94 R	-06/17/94		\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED WILL RE-ISSUE WHEN EMC PUM PROVIDES TECH. INFO.
	13.00 RFP		PROGRAMMABLE LOGIC CONTROLLER (PLC) CAPABILITY FOR ADDITIONAL STATION FUNCTIONS RE 06/23/94 R	-06/23/94 -06/23/94 -06/23/94		\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED SUPERCEDED BY CHANGE NOTICE B646-CN-13.01
	13.00 RFP		CIC INPUT/OUTPUT (I/O) REDUCTIONS (LESSONS LEARNED)(R81-93-098) EMC 10/26/93 R	-10/26/93 -05/05/94		\$0.00	0	ROM FCE COP	\$0.00 TBD TBD	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED SUPERCEDED BY CN- 13.01/CTE
	28.00 RFP		ADDITIONAL SYSTEM HVAC EQUIPMENT CONTROLS AND SMOKE DETECTION FOR ADDED FSDS AND EXHAUST FANS IN THE WILSHIRE CORRIDOR STATIONS (B646 R81-94-DCN-150) EMC 10/18/94 U	-10/18/94 -12/22/94		\$0.00	0	ROM FCE COP	\$16,768.00 TBD TBD	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED BY CN-28.01 SUPERCEDED BY 28.01, CHANGES IN DWGS/WORK DESCRIPTION.
	30.00 RFP		FIRE SERVICES REQUIRED CHANGES TO EMP DISPLAY RE 01/03/95 R	-01/03/95 -01/10/95 -01/10/95		\$0.00	0	ROM FCE COP	\$18,000.00 \$48,500.00 \$56,135.00	NTE NGO	\$0.00 TBD	WITHDRAWN/SUPERSEDED SUPERCEDED/CHANGED THE CN TYPE TO WATBN.

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Include all records