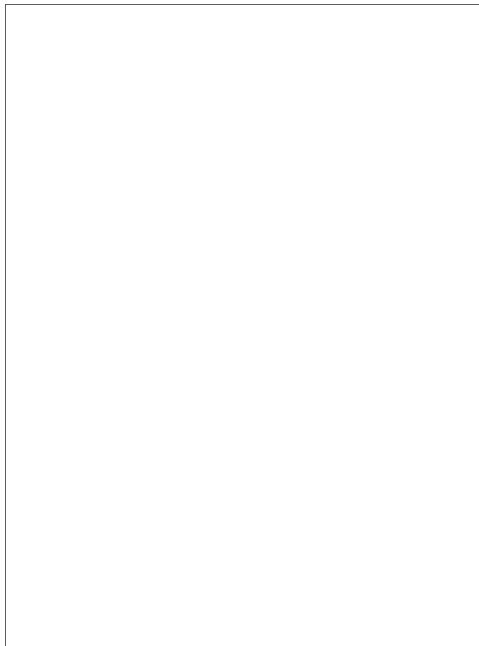


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**NPIC DATA SYSTEM  
DATA AND CONTROL SEGMENT  
ACQUISITION PHASE**

**APPENDIX B3  
SCHEDULES**



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24 February 1982

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NPIC DATA SYSTEM  
DATA AND CONTROL SEGMENT  
ACQUISITION PHASE

APPENDIX B3  
SCHEDULES



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24 February 1982

This data, furnished in connection with Request for Proposal 82-B-015 as amended, shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed in whole or in part for any purpose other than to evaluate the proposal. If a contract is awarded to this offeror as a result of or in connection with the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the contract. This restriction does not limit the Government's right to use information contained in the data if it is obtained from another source without restriction.



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APPENDIX B-3

SCHEDULES

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This appendix supplements Section 5, Project Plans; it provides additional detailed data that includes a comprehensive CDRLs delivery schedule and detailed CPCI development schedules. Section 5.1 of the Management Proposal shows the D/C Segment Master Schedule that includes the major activities and milestones required for the NPIC development. Sections 5.2 through 5.7 show a lower level of schedule detail for each specific plan. This appendix provides a subsequent level of detail that will allow the program management team to continually focus on the further refinement and adherence to the detailed schedules consistent with the proposed management approach. Schedule risk minimization is a major benefit from the in-depth understanding of the required activities, the ability to take prompt correctivity action when scheduled events are missed, and the concrete proof of overall development progress which occurs when a capability is demonstrated at the successful completion of a scheduled activity, task or milestone.

Table 1 presents the delivery schedule for all CDRLs. The CDRLs are broken into preliminary, update (built to), final (as built) for BOC, IOC and FOC where appropriate. Also included is the appropriate work breakdown structure number for each CDRL delivery. These schedules were developed using SCRIPT for ease of monitoring and updating by the Project Control Office. They will be reviewed by the responsible performing managers and their staffs at weekly Project Master Control Plan (PMCP) meetings. Monthly, they will be reviewed by executive management. Schedule status will be formally reported monthly to NDPO. Major milestones will be indentified in concert with NDPO and updated at least every six months.

Figures 1 through 17 show the detailed CPCI development schedules for the seventeen CPICs defined in Section 5.3, Software Development Plan, of the Management Proposal.

Also included are enlarged copies of the five project plans as described in Section 5.

- a. Master Schedule (Figure 18)
- b. Systems Engineering Schedule (Figure 19)
- c. Software Development Schedule (Figure 20)
- e. Integration and Test/Installation and Checkout Schedule (Figure 22)
- f. Training Schedule (Figure 23)

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Table 1. CDRL Delivery Schedule

CDRL NO	NAME	SCHEDULE													
		GEN PROJECT M/S		BOC			IOC			FOC					
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILT TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILT TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILT TO	FINAL/ AS BUILT
101	Contract WBS	641100	5/30/82												
102	Financial Plan	641100	5/30/82												
103	Master Schedule	641100	5/30/82												
104	Development Plan	642106	5/30/82												
105	Security Plan	641500	5/30/82												
106	CR Plan	641400	5/30/82												
107	SOW Update	641100	5/30/82												
103	QA Plan	641300	5/30/82												
109	Monthly Financial Report	641203	monthly												
110	Milestone Updates	641200	every six months												
111	Milestone Report	641200	weekly												
112	Monthly Status Review	641600	monthly												
113	Quarterly Prog and Status Report	641200	each quarter												

NOTE 1: 10 days after SBK and each CDRL as required by schedule.

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE													
		GEN PROJECT M/S		BOC				IOC				FOC			
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
114	Action Item List	641200	note 1												
115	Seg Trans and Integ Plan			642500	10/82	3/83	9/84	642501	10/82	11/83	9/84	642502	10/82	11/83	9/84
116	Seg Ops Concept			642300	Prop		8/82	642301	Prop		8/82	642302	Prop		8/82
117	Seg Design Specs			642400			6/82	642400			8/82	642400			8/82
118	S/W Opns H/W Interface			642103			8/82	642104			8/82	642105			8/82
119	Rgmt Trace Verif. Matrix			642200	Prop	8/82	12/82	642201	Prop	8/82	6/83	642202	Prop	8/82	10/83
120	Eng Tech Notes		as required	642221				642222				642223			
121	Seg Verif Plan			642600			10/82	642601			10/82	642602			10/82
122	Seg Design Analy Rpt			642209	Prop	8/82	12/82	642210	Prop	8/82	6/83	642211	Prop	8/82	10/83
123	OB&N Plan Manual			642312	10/82		2/83	642313	10/82		11/83	642314	10/82		11/83
124	Maint and Log Plan			642315	9/82		12/83	642316	9/82		12/83	642317	9/82		12/83
125	DB Spec			642401	10/82		2/83	642401	10/82		11/83	642401	10/82		11/83
126	Ops/SW Int Spec			622405	9/82		1/83	622406	9/82		1/83	622407	9/82		10/83
127	Ops/HW Int Spec			622405	9/82		1/83	622406	9/82		1/83	622407	9/82		10/83

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE														
		GEN PROJECT B/S		BOC			IOC			FOC						
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	
128	HW/SW Int Spec			622405	9/82		1/83	622406	9/82			1/83	622407	9/82		10/83
129	SW/SW Int Spec			622405	9/82		1/83	622406	9/82			1/83	622407	9/82		2/85
130	Seg Test Plan			642603	10/82		2/83	642604	10/82			11/83	642605	10/82		11/83
131	Test Plan			641011	1/83		2/83	641111	1/83			11/83	641211	1/83		11/83
132	Seg Prog P, S & C			643007	9/82		1/83	643007	9/82			9/83	643007	9/82		9/83
133	Seg Ops Specs			642300			10/82	642301				10/82	642302			10/82
134	Seg Inst Plan			641331	10/82	2/83	10/83	641431	10/82	9/83		10/83	641531	10/82	9/83	10/83
135	User Manual			642303	10/82	2/83	2/84	642304	10/82	2/83		3/85	642305	10/82	2/83	7/85
136	Operator Manual			642306	10/82	2/83	2/84	642307	10/82	2/83		3/85	642308	10/82	2/83	7/85
137	DB Admin Manual				10/82	2/83	2/84		10/82	9/83		3/85		10/82	9/83	7/85
138	Programmers Manual				2/83		5/84			9/83		5/85		9/83		9/85
139	Facility IDRS			641320	10/82	2/83	3/84	641420	10/82	10/83		4/85	641520	10/82	10/83	6/85
140	Trng Plan			641713	1/83		2/83	641714	1/83			11/83	641715	1/83		11/83
143	CI Spec			646201	10/82			646201	10/82							
144	Component Spec			646201	10/82			646201	10/82							
				646204		2/83		647201		6/83						
				646208			5/84	647205				5/85				

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Table 1. CDRL Delivery Schedule (Cont.)

SCHEDULE															
CDRL NO	NAME	GEN PROJECT N/S		BOC				IOC				FOC			
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
146	Trng Materials			641720	3/83		12/83	641721	10/83		1/85	641722	10/83		15/85
				641730	3/83		12/83	641731	10/83		1/85	641732	10/83		15/85
				641740	3/83		12/83	641741	10/83		1/85	641742	10/83		15/85
147	Shipping Plan			641330			11/84	641430			1/85	641530			4/85
148	Equip O&M Manual			646253	1/84		7/84	647212	3/84		7/85	648212	6/85		11/85
149	QA Audit Report		Audit + 15	641310				641311				641312			
151	DB Packages			643015			5/84	644013			5/85	645013			19/85
152	SW Desc Doc			641410			2/84	641411			4/85	641412			7/85
153	Sys Test/Demo Inp			641350	11/83		11/84	641450	1/85		8/85	641550	3/85		*
154	Seg Test Reports			641341			6/84	641441			6/85	641541			10/85
155	Tech Perf Meas		As Required	642203				642204				642205			
156	Accession List Manual		Monthly	641800				641801				641802			

\* Complete 15 days after last system demo.

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE													
		GEN PROJECT N/S		BOC				IOC				FOC			
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
	<b>BPPRE</b>														
131	Test Plans			643021	10/82			643021	10/82						
				643024			11/82	644017						8/83	
138	Programmer's Manual			643023	11/82			644016	8/83						
				643034				644026						5/85	
141	Part I Specs			643018	8/82			643018	8/82						
142	Part II Specs			643020	8/82			643020	8/82						
				643022		12/82		644015		8/83					
				643036			5/84	644028						5/85	
145	Data Dictionary			643019	8/82	12/82	5/84	643019	8/82	8/83				5/85	
150	CPCI Listings			643032				7/84						7/85	
	<b>BEMGMT</b>														
131	Test Plans			643041	11/82			643041		11/82					
				643044				644031						7/83	
138	Programmer's Manual			643043	1/83			644030	7/83						
				643053				644040						5/85	
141	Part I Specs			643038	8/82			643038	8/82						
142	Part II Specs			643040	8/82			643040	8/82						
				643042		1/83		644029		7/83					
				643055			5/84	644042						5/85	
145	Data Dictionary			643039	8/82	1/83	5/84	643039	8/82	7/83				5/85	
150	CPCI Listings			643052				7/84						7/85	

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE													
		GEN PROJECT M/S		BOC				IOC				FOC			
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
	<u>BEKSUP</u>														
131	Test Plans			643285 643286	11/82			643285 644200	11/82					5/83	
138	Programmer's Manual			643287 643298	12/82			644199 644209	5/83					5/85	
141	Part I Specs			643281	8/82			643281	8/82						
142	Part II Specs			643284 643286 643300	8/82	12/82		643284 644198 644211	8/82	5/83				5/85	
145	Data Dictionary			643282	8/82	12/82		643282	8/82	5/83				5/85	
150	CPCI Listings			643296				644208						7/85	
	<u>BEHESU</u>														
131	Test Plans			643060 643063	11/82			643060 644045	11/82					6/83	
138	Programmer's Manual			643062 643072	12/82			644044 644054	6/83					5/85	
141	Part I Specs			643057	8/82			643057	8/82						
142	Part II Specs			643059 643061 643074	8/82	12/82		643059 644043 644056	8/82	6/83				5/85	
145	Data Dictionary			643058	8/82	12/82		643058	8/82	6/83				5/85	
150	CPCI Listings			643071				644053						7/85	

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE													
		GEN PROJECT M/S		BOC				IOC				FOC			
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
	<b>BMANIP</b>														
131	Test Plans			643097 643100	11/82		1/83	643097 644059	11/82						
138	Program- mer's Manual			643099 643109	1/83		5/84	644058 644068	5/83						
141	Part I Specs			643301	8/82			643301	8/82						
142	Part II Specs			643096 643098 643111	8/82	1/83	5/84	643096 644057 644070	8/82	5/83					
145	Data Dictionary			643095	8/82	1/83	5/84	643095	8/82	5/83					
150	CPCI Listings			643106			7/84	644067							
	<b>BSTATM</b>														
131	Test Plans			643116 643119	12/82		2/83	643116 644073	12/82						
138	Program- mer's Manual			643118 643128	2/83		5/84	644072 644083	9/83						
141	Part I Specs			643113	9/82			643113	9/82						
142	Part II Specs			643115 643117 643130	9/82	2/83	5/84	643115 644071 644085	9/82	9/83					
145	Data Dictionary			643114	9/82	2/83	5/84	643114	9/82	9/83					
150	CPCI Listings			643127			7/84	644082							

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Table 1. CDRL Delivery Schedule (Cont.)

		SCHEDULE													
		GEN PROJECT M/S		BOC				IOC				FOC			
CDRL NO	NAME	WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
	<u>BAMG III</u>														
131	Test Plans							644102	12/82		11/83	645017	12/82		11/83
138	Program- mer's manual							644101 644111	11/83		5/85	645016 645026	11/83		9/85
141	Part I Specs			643150	9/82			643150	9/82			643150	9/82		
142	Part II Specs							644100 644113	9/82	11/83	5/85	645015 645028	9/82	11/83	9/85
145	Data Dictionary								9/82	11/83	5/85		9/82	11/83	9/85
150	CPCL Listings							644110			7/85	645025			11/85
	<u>BCCNTR</u>														
131	Test Plans			643171 643174	1/83		2/83	643171 644116	1/83		8/83	643171 645031	1/83		10/83
138	Program- mer's manual			643173 643183	2/83		5/84	644115 644125	8/83		5/85	645030 645040	10/83		9/85
141	Part I Specs			643166	10/82			643168	10/82			643168	10/82		
142	Part II Specs			643170 643185	10/82	2/83	5/84	643170 644114 644127	10/82	8/83	5/85	643170 645029 645042	10/82	10/83	9/85
145	Data Dictionary			643169	10/82	2/83	5/84	643169	10/82	8/83	5/85	643169	10/82	10/83	9/85
150	CPCL Listings			643182			7/84	644124			7/85	645039			11/85

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE													
		GEN PROJECT #/S		BOC				IOC				FOC			
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
	<u>BQUERY</u>														
131	Test Plans			643190	12/82			643190	12/82						
				643192			1/83	644130						5/85	
138	Programmer's Manual			643201	1/83			644129	5/83					5/85	
								644139							
141	Part I Specs			643187	9/82			643187	9/82						
142	Part II Specs			643189	9/82			643189	9/82						
				643191		1/83		644128		5/83					
				643203			5/84	644141						5/85	
145	Data Dictionary			643188	9/82	1/83	5/84	643188	9/82	5/83				5/85	
150	CPCI Listings			643200			7/84	644138						7/85	
	<u>BAPPLS</u>														
131	Test Plans			643208	1/83			643208	1/83						
				643211			2/83	644144						7/83	
138	Programmer's Manual			643210	2/83			644143	7/83						
				643220			5/84	644153						5/85	
141	Part I Specs			643205	10/82			643205	10/82						
142	Part II Specs			643207	10/82			643207	10/82						
				643209		2/83		644142		7/83					
				643222			5/84	644155						5/85	
145	Data Dictionary			643206	10/82	2/83	5/84	643206	10/82	7/83				5/85	
150	CPCI Listings			643219			7/84	644152						7/85	

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE															
		GEN PROJECT M/S		BOC				IOC				FOC					
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT		
	<u>DDARS</u>																
131	Test Plans			643227 643230	11/82			12/82	643227 644158	11/82			9/83				
138	Programmer's Manual			643229 643239	12/82			5/84	644157 644167	9/83			5/85				
141	Part I Specs			643224	9/82				643224	9/82							
142	Part II Specs			643226 643228 643241	9/82	12/82		5/84	643226 644156 644169	9/82	9/83		5/85				
145	Data Dictionary			643225	9/82	12/82		5/84	643225	9/82	9/83		5/85				
150	CPCI Listings			643238				7/84	644166				7/85				
	<u>BIFDEV</u>																
131	Test Plans			643246 643249	11/82			12/82	643246 644172	11/82			8/83	643246 645045	11/82	11/83	
138	Programmer's Manual			643248 643258	12/82			5/84	644171 644181	8/83			5/85	645044 645054	11/83	9/85	
141	Part I Specs			643243	9/82				643243	9/82				643243	9/82		
142	Part II Specs			643245 643247 643260	9/82	12/82		5/84	643245 644170 644183	9/82	8/83		5/85	643245 645043 645056	9/82	11/83	9/85
145	Data Dictionary			643244	9/82	12/82		5/84	643244	9/82	8/83		5/85	643244	9/82	11/83	9/85
150	CPCI Listings			643257				7/84	644180				7/85	645053		9/85	

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Table 1. CDRL Delivery Schedule (Cont.)

CDRL NO	NAME	SCHEDULE													
		GEN PROJECT M/S		BOC				IOC				FOC			
		WBS NO	DATE	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT	WBS NO	PREL	UPDATE/ BUILD TO	FINAL/ AS BUILT
	<u>MAPLES</u>														
131	Test Plans			643265 643268	1/83		2/83	643265 644186	1/83					6/83	
138	Programmer's Manual			643267 643277	2/83		5/84	644185 644195	6/83					5/85	
141	Part I Specs			643262	10/82			643262	10/82						
142	Part II Specs			643264 643266 643279	10/82	2/83		643264 644184 644197	10/82	6/83				5/85	
145	Data Dictionary			643263	10/82	2/83	5/84	643263	10/82	6/83				5/85	
150	CPCL Listings			643276			7/84	644194						7/85	

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BEXUP

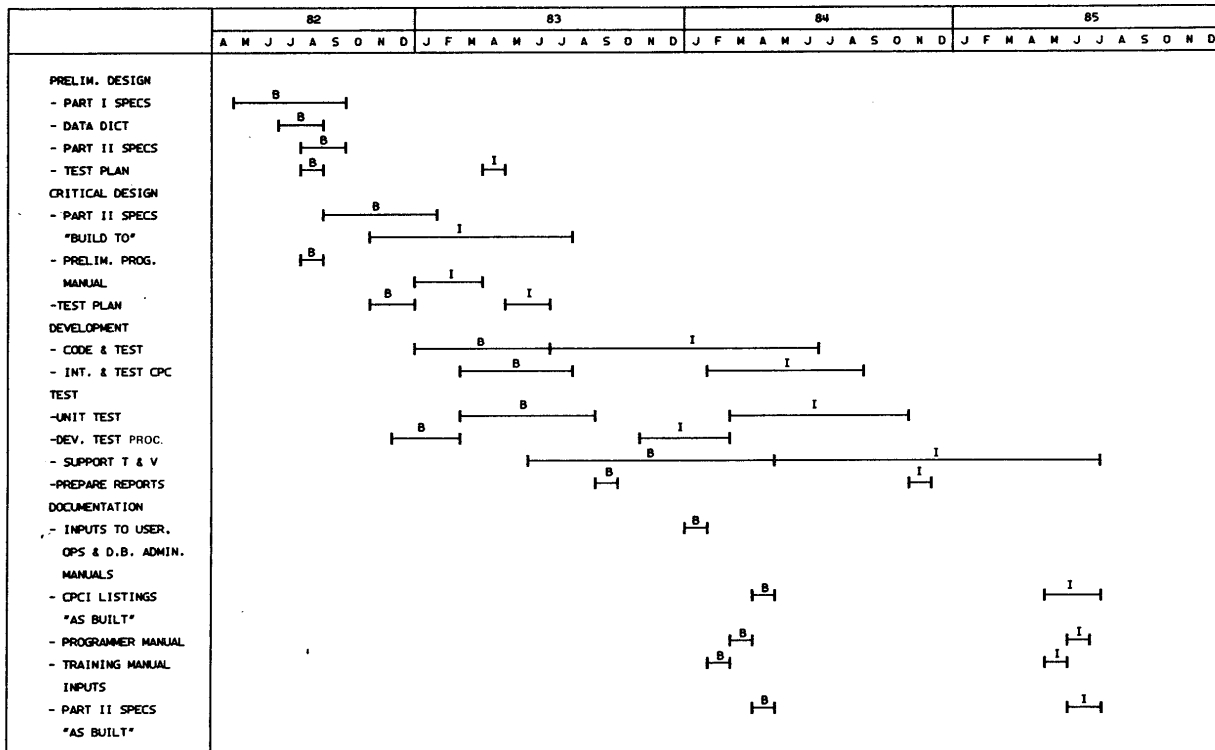


FIGURE 3. CPC I DEVELOPMENT SCHEDULE

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BSTATR

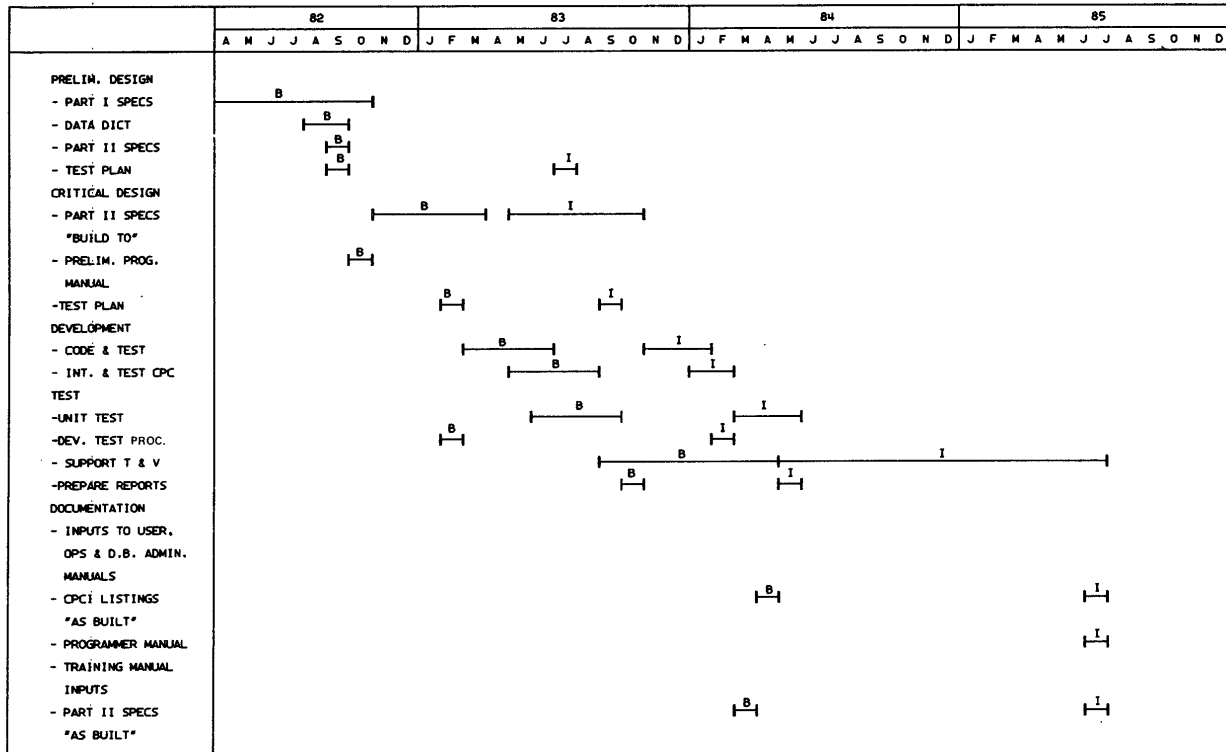


FIGURE 6. CPCI DEVELOPMENT SCHEDULE

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BSYSM

	82												83												84												85											
	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D			
PRELIM. DESIGN																																																
- PART I SPECS																																																
- DATA DICT																																																
- PART II SPECS																																																
- TEST PLAN																																																
CRITICAL DESIGN																																																
- PART II SPECS																																																
"BUILD TO"																																																
- PRELIM. PROG. MANUAL																																																
DEVELOPMENT																																																
- CODE & TEST																																																
- INT. & TEST CPC																																																
TEST																																																
- SUPPORT T & V																																																
DOCUMENTATION																																																
- INPUTS TO USER, OPS & D.B. ADMIN. MANUALS																																																
- CPC LISTINGS																																																
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- PROGRAMMER MANUAL																																																
- TRAINING MANUAL																																																
INPUTS																																																
- PART II SPECS																																																
"AS BUILT"																																																

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FIGURE 14. CPC DEVELOPMENT SCHEDULE

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BDDMS1

	82												83												84												85											
	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D			
PRELIM. DESIGN																																																
- PART I SPECS																																																
- DATA DICT																																																
- PART II SPECS																																																
- TEST PLAN																																																
CRITICAL DESIGN																																																
- PART II SPECS																																																
"BUILD TO"																																																
- PRELIM. PROG. MANUAL																																																
DEVELOPMENT																																																
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- INT. & TEST CPC																																																
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- SUPPORT T & V																																																
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FIGURE 15. CPCI DEVELOPMENT SCHEDULE

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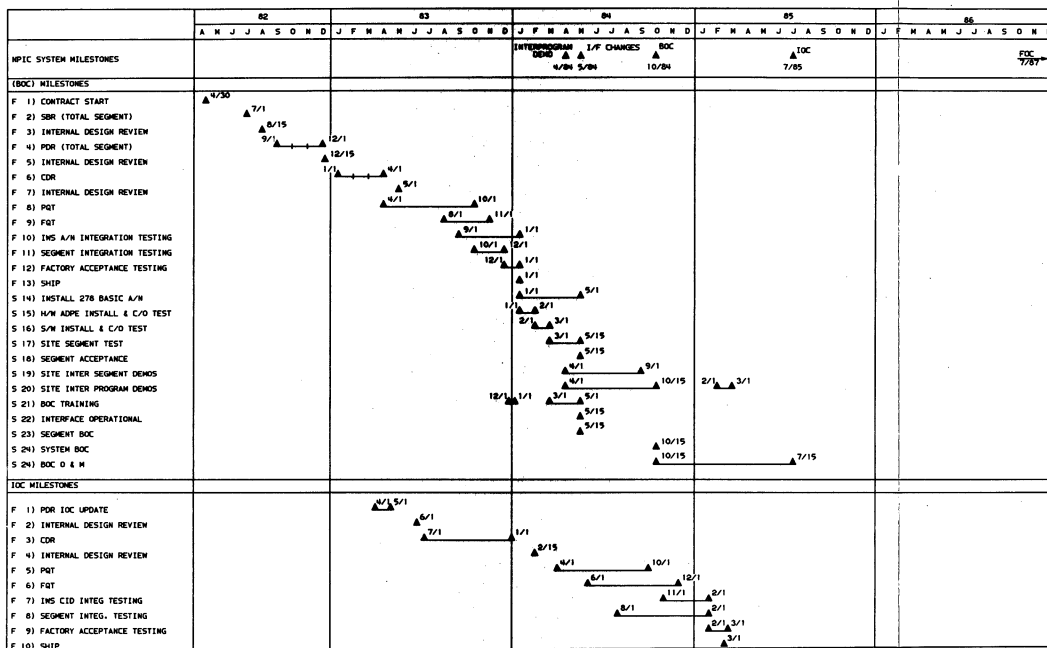
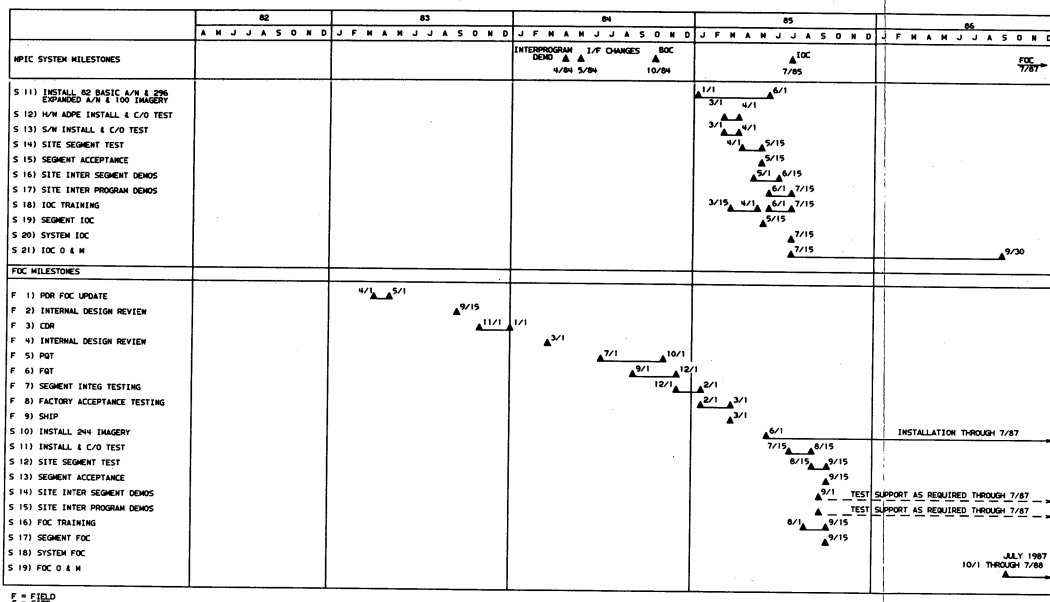


Figure 18. Master Schedule (Sheet 1 of 2)

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S = START

MPIC 0101 .MPC

Figure 18. Master Schedule (Sheet 2 of 2)







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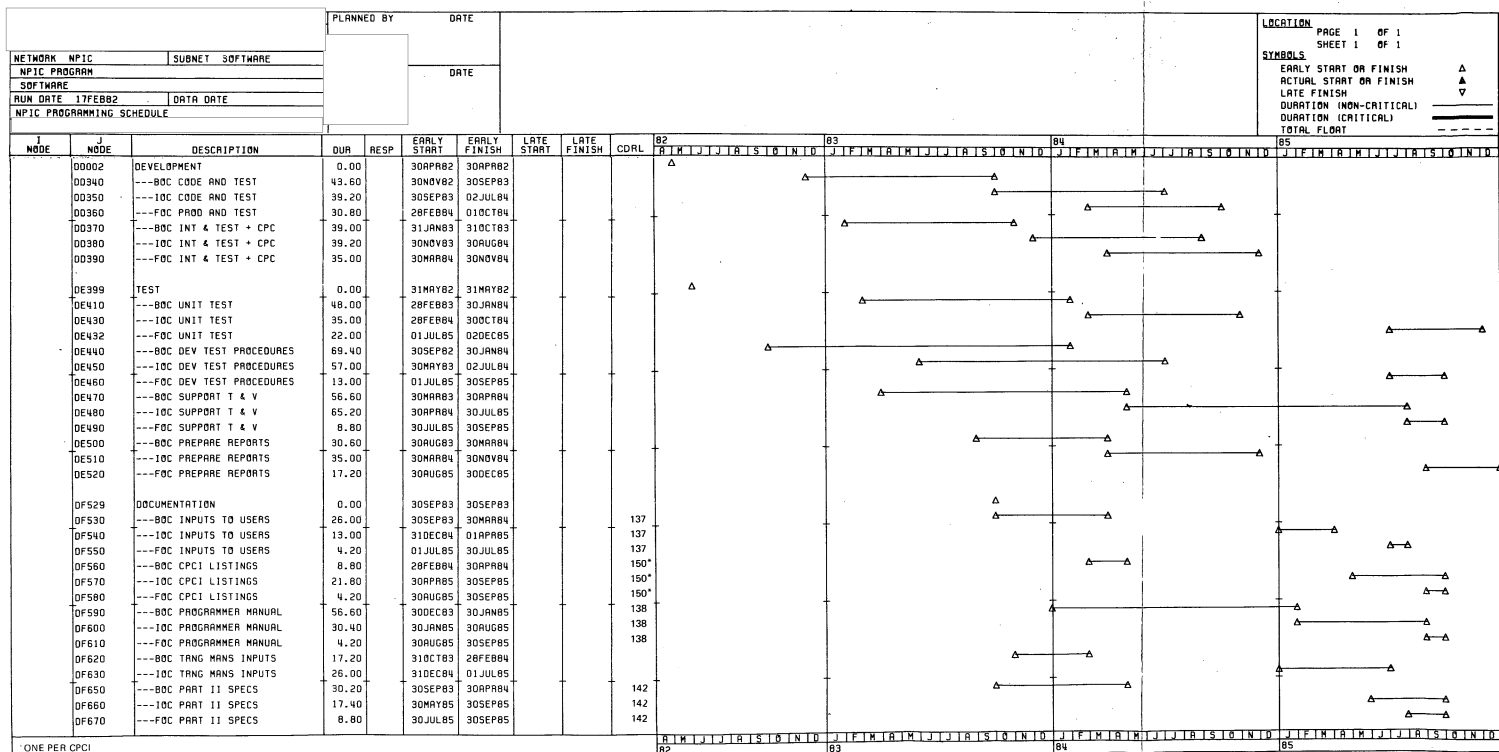


Figure 20. Software Development Schedule (Sheet 2 of 2)

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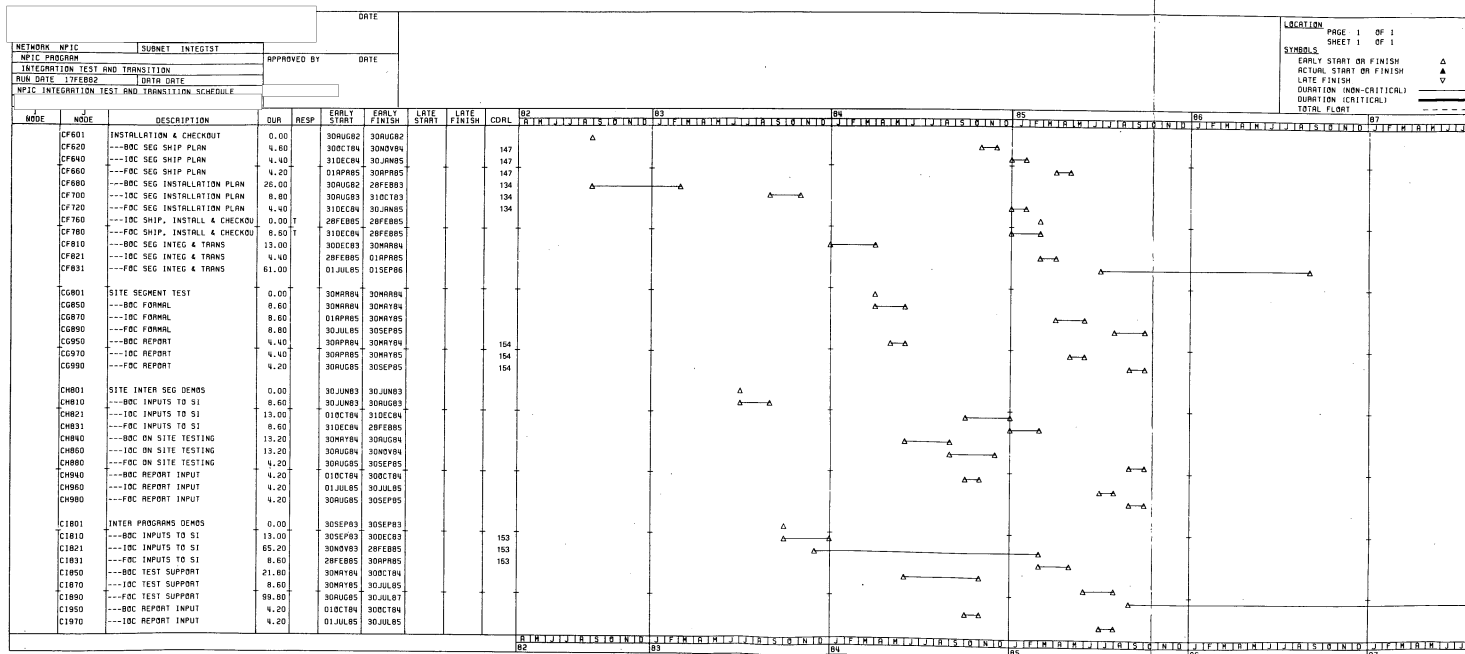


Figure 22. Integration and Test/Installation and Checkout Schedule (Sheet 2 of 2)

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