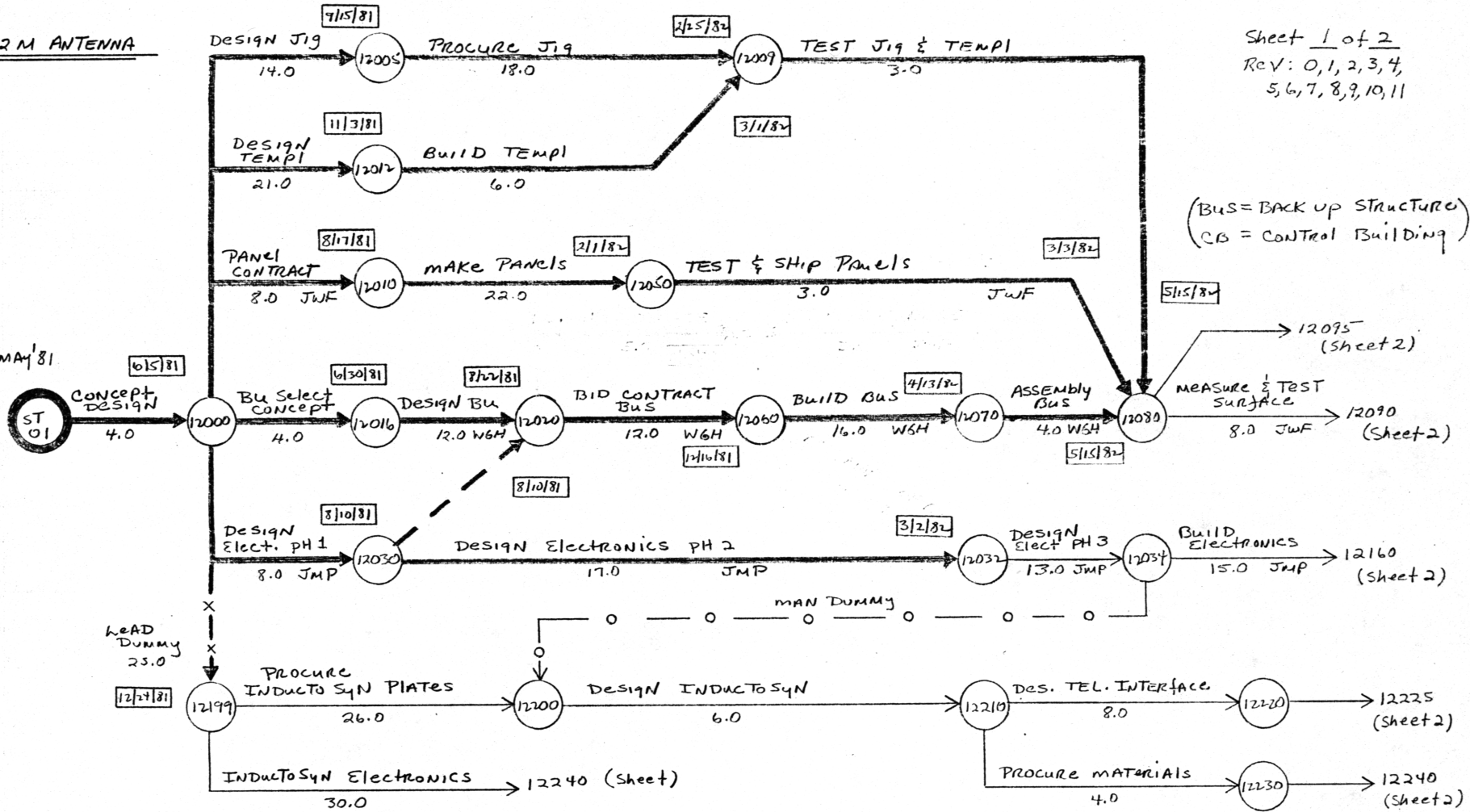


12 M ANTENNA

Sheet 1 of 2  
 Rev: 0, 1, 2, 3, 4,  
 5, 6, 7, 8, 9, 10, 11

(BUS = BACK UP STRUCTURE)  
 CB = CONTROL BUILDING

01 MAY '81

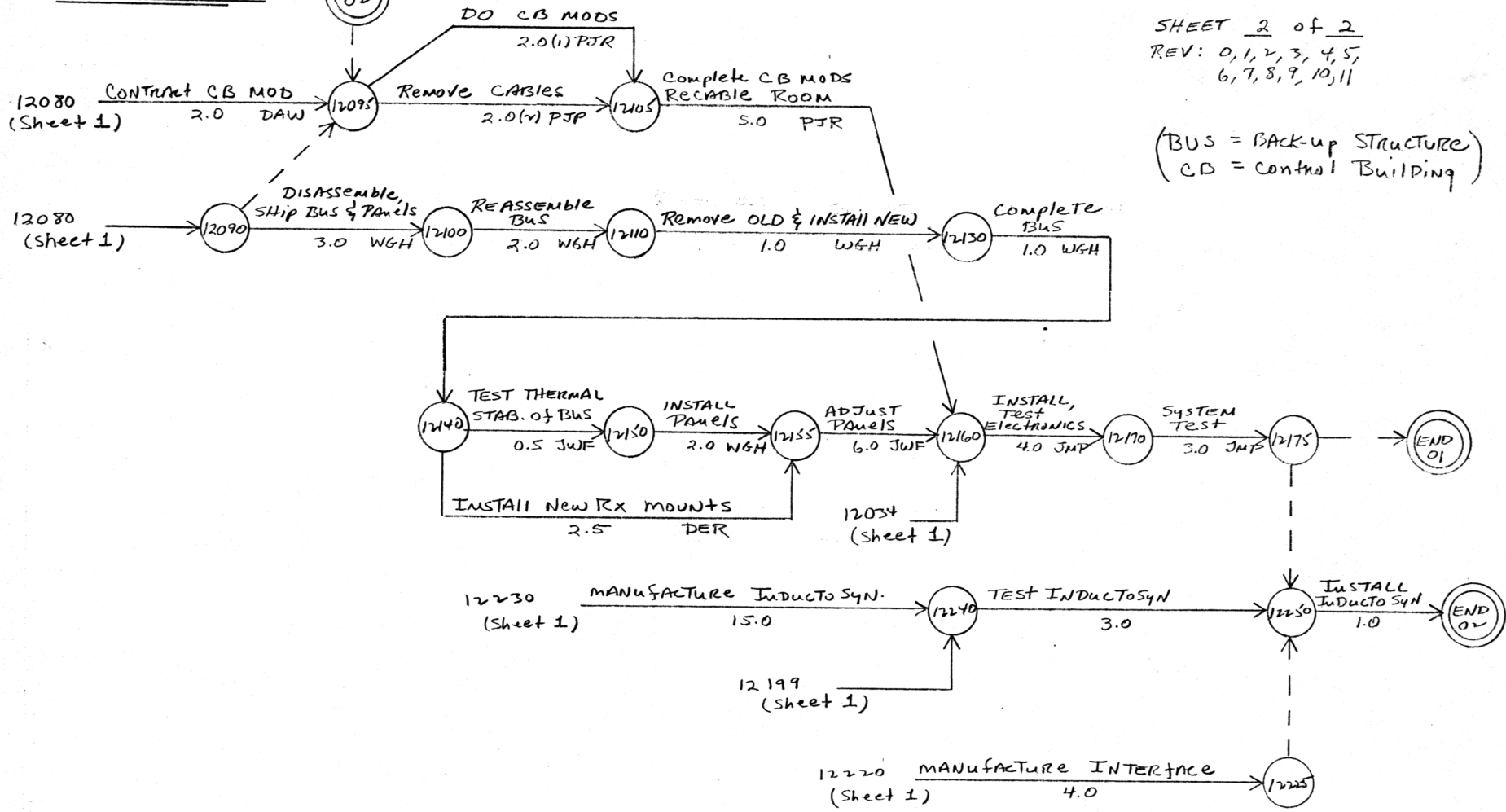


12 METER MILLIMETER WAVE TELESCOPE  
 MEMO No. 169

12M ANTENNA

15 Jul '82

ST 02



SHEET 2 of 2  
 REV: 0, 1, 2, 3, 4, 5,  
 6, 7, 8, 9, 10, 11

(BUS = BACK-up STRUCTURE)  
 (CB = Control Building)

NATIONAL RADIO ASTRONOMY OBSERVATORY  
ACTIVITY TIME REPORT

PROGRAM 07JUN82 REPORT DATE. 12M TELESCOPE PROJECT.  
PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001  
ANT012

RUN DATE 07JUN82

LEVEL DETAIL

SORTED BY PRED,SUCC

PRED EVENT	SUCC EVENT	CY. CD.	ACTIVITY DESCRIPTION	TIME EST	SLACK PRIM. SEC.	EARLY START	DATES FINISH	LATE START	DATES FINISH	DEPT
	ST01 S		BEGIN		.0	A01MAY81	A01MAY81	01MAY81	01MAY81	
	ST02 S				7.9	A15JUL82	A15JUL82	09SEP82	09SEP82	
ST01	12000		CONCEPT DESIGN	04.0	.0	A01MAY81	A08JUN81	01MAY81	08JUN81	
ST02	12095		DUMMY	0000	7.9	A15JUL82	15JUL82	09SEP82	09SEP82	
END01		E			.0	17DEC82	17DEC82	17DEC82	17DEC82	
END02		E			.0	21JAN83	21JAN83	21JAN83	21JAN83	
12000	12005		DESIGN JIG	14.0	.4	A08JUN81	A15SEP81	08JUN81	17SEP81	
12000	12010		PANEL CONTRACT	08.0	10.6	A08JUN81	A17AUG81	08JUN81	30OCT81	JWF
12000	12012		DESIGN TEMPL	21.0	.0	A08JUN81	A03NOV81	08JUN81	03NOV81	
12000	12016		SELECT CONCEPT	04.0	.0	A08JUN81	A30JUN81	08JUN81	30JUN81	
12000	12030		ELECTRONICS DESIGN PH 1	08.0	4.2	A08JUN81	A10AUG81	08JUN81	09SEP81	JMP
12000	12199		LEAD DUMMY	25.0	.0	A08JUN81	A24DEC81	08JUN81	24DEC81	XX
12005	12009		PROCURE JIG	18.0	.4	A15SEP81	A25FEB82	17SEP81	01MAR82	
12009	12080		TEST JIG & TEMPL	03.0	.0	A01MAR82	A17MAY82	01MAR82	17MAY82	
12010	12050		MAKE PANELS	22.0	10.6	A17AUG81	A01FEB82	30OCT81	19APR82	JWF
12012	12009		BUILD TEMPL	06.0	.0	A03NOV81	A01MAR82	03NOV81	01MAR82	
12016	12020		DESIGN BUS	12.0	.0	A30JUN81	A22SEP81	30JUN81	22SEP81	WGH
12020	12060		BID, CONTRACT BUS	12.0	.0	A22SEP81	A16DEC81	22SEP81	16DEC81	WGH
12030	12020		DUMMY	0000	6.0	A10AUG81	A10AUG81	09SEP81	22SEP81	
12030	12032		DESIGN ELECTRONICS PH 2	17.0	4.2	A10AUG81	A02MAR82	09SEP81	31MAR82	JMP
12032	12034		DESIGN ELECTRONICS PH 3	13.0	4.2	A02MAR82	01JUN82	31MAR82	30JUN82	JMP
12034	12160		BUILD ELECTRONICS	15.0	6.3	01JUN82	15SEP82	14JUL82	28OCT82	JMP
12034	12200		MAN DUMMY	0000	4.2	01JUN82	01JUN82	30JUN82	30JUN82	XX
12050	12080		TEST & SHIP PANELS	03.0	10.6	A01FEB82	A03MAR82	19APR82	17MAY82	JWF
12060	12070		BUILD BUS	16.0	.0	A16DEC81	A13APR82	16DEC81	13APR82	WGH
12070	12080		ASSEMBLY BUS	04.0	.0	A13APR82	A17MAY82	13APR82	17MAY82	WGH
12080	12090		MEASURE & TEST SURFACE	08.0	.0	A17MAY82	12JUL82	17MAY82	12JUL82	JWF
12080	12095		CONTRACT CB MCD	02.0	14.5	A17MAY82	31MAY82	25AUG82	09SEP82	DAW
12090	12095		DUMMY	0000	8.5	12JUL82	12JUL82	09SEP82	09SEP82	
12090	12100		DISASS, SHIP BUS/PANELS	03.0	.0	12JUL82	02AUG82	12JUL82	02AUG82	WGH
12095	12105 2		REMOVE CABLES	02.0	7.9	15JUL82	29JUL82	09SEP82	23SEP82	PJR
12095	12105 1		DO CB MODS	02.0	-7.9	15JUL82	29JUL82	09SEP82	23SEP82	PJR
12100	12110		REASSEMBLE BUS	02.0	.0	02AUG82	16AUG82	02AUG82	16AUG82	WGH
12105	12160		CMPLT CB MODS, RECABLE	05.0	7.9	29JUL82	02SEP82	23SEP82	28OCT82	PJR
12110	12130		REMOVE OLC, INSTALL NEW	01.0	.0	16AUG82	23AUG82	16AUG82	23AUG82	WGH
12130	12140		COMPLETE BUS	01.0	.0	23AUG82	30AUG82	23AUG82	30AUG82	WGH
12140	12150		TST THERMAL STAB OF BUS	00.5	.0	30AUG82	01SEP82	30AUG82	01SEP82	JWF
12140	12155		INSTALL NEW RX MOUNTS	02.5	.0	30AUG82	16SEP82	30AUG82	16SEP82	DER
12150	12155		INSTALL PANELS	02.0	.0	01SEP82	16SEP82	01SEP82	16SEP82	WGH
12155	12160		ADJUST PANELS	06.0	.0	16SEP82	28OCT82	16SEP82	28OCT82	JWF
12160	12170		INSTALL, TST ELECTRONICS	04.0	.0	28OCT82	26NOV82	28OCT82	26NOV82	JWF
12170	12175		TEST SYSTEM	03.0	.0	26NOV82	17DEC82	26NOV82	17DEC82	JMP
12175	END01		DUMMY	0000	.0	17DEC82	17DEC82	17DEC82	17DEC82	
12175	12250		DUMMY	0000	3.9	17DEC82	17DEC82	14JAN83	14JAN83	
12199	12200		PRCC. INDUCTOSYNS PLATES	26.0	.0	A24DEC81	30JUN82	24DEC81	30JUN82	
12199	12240		INDUCTOSYN ELECTRONICS	30.0	21.0	A24DEC81	28JUL82	26MAY82	24DEC82	

NATIONAL RADIO ASTRONOMY OBSERVATORY  
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PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001  
ANT012

RUN DATE 07JUN82

LEVEL DETAIL

SCRPTD BY PRED,SUCC

PRED EVENT	SUCC EVENT	CY. CD.	ACTIVITY DESCRIPTION	TIME EST	SLACK PRIM. SEC.	EARLY START	DATES FINISH	LATE START	DATES FINISH	SCHED.	DEPT
12200	12210		DESIGN INDUCTCSYNS	06.0	.0	30JUN82	11AUG82	30JUN82	11AUG82		
12210	12220		DES. TEL INTERFACE	08.0	10.0	11AUG82	07OCT82	21OCT82	17DEC82		
12210	12230		PROCURE MAT.	04.0	.0	11AUG82	09SEP82	11AUG82	09SEP82		
12220	12225		MFG. INTERFACE	04.0	10.0	07OCT82	04NOV82	17DEC82	14JAN83		
12225	12250		DUMMY	0000	10.0	04NOV82	04NOV82	14JAN83	14JAN83		
12230	12240		MFG. INDUCTCSYNS	15.0	.0	09SEP82	24DEC82	09SEP82	24DEC82		
12240	12250		TEST INDUCTCSYNS	03.0	.0	24DEC82	14JAN83	24DEC82	14JAN83		
12250	END02		INSTALL INDUCTCSYNS	01.0	.0	14JAN83	21JAN83	14JAN83	21JAN83		

NATIONAL RADIO ASTRONOMY OBSERVATORY  
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PROGRAM 07JUN82 REPORT DATE. 12M TELESCOPE PROJECT.  
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12M001  
ANT012

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PRED EVENT	SUCC EVENT	CY CD	DESCRIPTION	A - ACTIVITY COMPLETE * - ACTIVITY DURATION	F - PACING ITEM - - ACTIVITY FLOAT	FINAL DATE	DEPT		
ST01	12000		CONCEPT DESIGN	.	.	08JUN81			
12000	12005		DESIGN JIG	.	.	15SEP81			
12000	12010		PANEL CONTRACT	.	.	17AUG81	JWF		
12000	12012		DESIGN TEMPL	AAAAA	.	03NOV81			
12000	12016		SELECT CONCEPT	.	.	30JUN81			
12000	12030		ELECTRONICS DESIGN PH 1	.	.	10AUG81	JMP		
12005	12005		PROCURE JIG	AAAAAAAAAAAAAAAAAAAAA	.	25FEB82			
12005	12080		TEST JIG & TEMPL	. AAAAAAAAAAAAA	.	17MAY82			
12010	12050		MAKE PANELS	AAAAAAAAAAAAAAAAAAAAA	.	01FEB82	JWF		
12012	12005		BUILD TEMPL	. AAAAAAAAAAAAAAAAAA	.	01MAR82			
12016	12020		DESIGN BUS	.	.	22SEP81	WGH		
12020	12060		BIC, CONTRACT BUS	AAAAAAAAAAAAA	.	16DEC81	WGH		
12030	12032		DESIGN ELECTRONICS PH 2	AAAAAAAAAAAAA/AAAAAAAAA	.	02MAR82	JMP		
12032	12034		DESIGN ELECTRONICS PH 3	. *****	.	01JUN82	JMP		
12034	12160		BUILT ELECTRONICS	.	*****	15SEP82	JMP		
12050	12080		TEST & SHIP PANELS	. AAAAA	.	03MAR82	JWF		
12060	12070		BUILD BUS	. AAAAAAAAAAAAAAAAAA	.	13APR82	WGH		
12070	12080		ASSEMBLY BUS	. AAAAAA	.	17MAY82	WGH		
12080	12090		MEASURE & TEST SURFACE	.	PPPPPPP	12JUL82	JWF		
12080	12095		CONTRACT CB MCD	.	**-----	31MAY82	DAW		
12090	12100		DISASS, SHIP BLS/PANELS	.	. PPPP	02AUG82	WGH		
12095	12105 2		REMOVE CABLES	.	. ***-----	29JUL82	PJR		
12095	12105 1		DO CB MODS	.	. ***-----	29JUL82	PJR		
12100	12110		REASSEMBLE BUS	.	. PPP	16AUG82	WGH		
12105	12160		CMPLT CB MCDS, RECABLE	.	. *****	02SEP82	PJR		
12110	12130		REMOVE GLD, INSTALL NEW	.	. P	23AUG82	WGH		
12130	12140		COMPLETE BLS	.	. PP	30AUG82	WGH		
12140	12150		TST THERMAL STAB OF BUS	.	. PP	01SEP82	JWF		
12140	12155		INSTALL NEW RX MCUNTS	.	. PPPP	16SEP82	DER		
12150	12155		INSTALL PANELS	.	. PPP	16SEP82	WGH		
12155	12160		ADJUST PANELS	.	. PPPPPP	28OCT82	JWF		
12160	12170		INSTALL, TST ELECTRONICS	.	. PPPPP	26NOV82	JWF		
12170	12175		TEST SYSTEM	.	. PPPP	17DEC82	JMP		
12199	12200		FRCC, INDUCTOSYNS PLATES	. PPPPPPPPPPPPPPPPPPPPPPPPP	.	30JUN82			
12199	12240		INDUCTSYN ELECTRONICS	. *****	.	28JUL82			
12200	12210		DESIGN INDUCTSYNS	.	. PPPPPP	11AUG82			
12210	12220		DES. TEL INTERFACE	.	. *****	07OCT82			
12210	12230		PROCURE MAT.	.	. PPPPP	09SEP82			
12220	12225		MFG. INTERFACE	.	. *****	04NOV82			
12230	12240		MFG. INDUCTSYNS	.	. PPPPPPPPPPPPPPP	24DEC82			
12240	12250		TEST INDUCTSYNS	.	. PPP	14JAN83			
12250	END02		INSTALL INDUCTSYNS	.	. PP	21JAN83			
				01JAN82	01APR82	01JUL82	01OCT82	01JAN83	01APR83

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ANT012

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LEVEL DETAIL

SORTED BY EXP.DATE

PRED EVENT	SUCC EVENT	CY. CD.	ACTIVITY DESCRIPTION	TIME EST	SLACK PRIM. SEC.	EARLY START	DATES FINISH	LATE START	DATES FINISH	SCHED.	DEPT
12080	12095		CONTRACT CB MCC	02.0	14.5	A17MAY82	31MAY82	25AUG82	09SEP82		DAW
12032	12034		DESIGN ELECTRONICS PH 3	13.0	4.2	A02MAR82	01JUN82	31MAR82	30JUN82		JWP
12034	12200		MAN DUMMY	0000	4.2	01JUN82	01JUN82	30JUN82	30JUN82		XX
12199	12200		FRCC. INDUCTOSYNS PLATES	26.0	.0	A24DEC81	30JUN82	24DEC81	30JUN82		
12080	12090		MEASURE & TEST SURFACE	08.0	.0	A17MAY82	12JUL82	17MAY82	12JUL82		JWF
12199	12240		INDUCTSYN ELECTRONICS	30.0	21.0	A24DEC81	28JUL82	26MAY82	24DEC82		
12200	12210		DESIGN INDUCTSYNS	06.0	.0	30JUN82	11AUG82	30JUN82	11AUG82		
12034	12160		BUILD ELECTRONICS	15.0	6.3	01JUN82	15SEP82	14JUL82	28OCT82		JMP