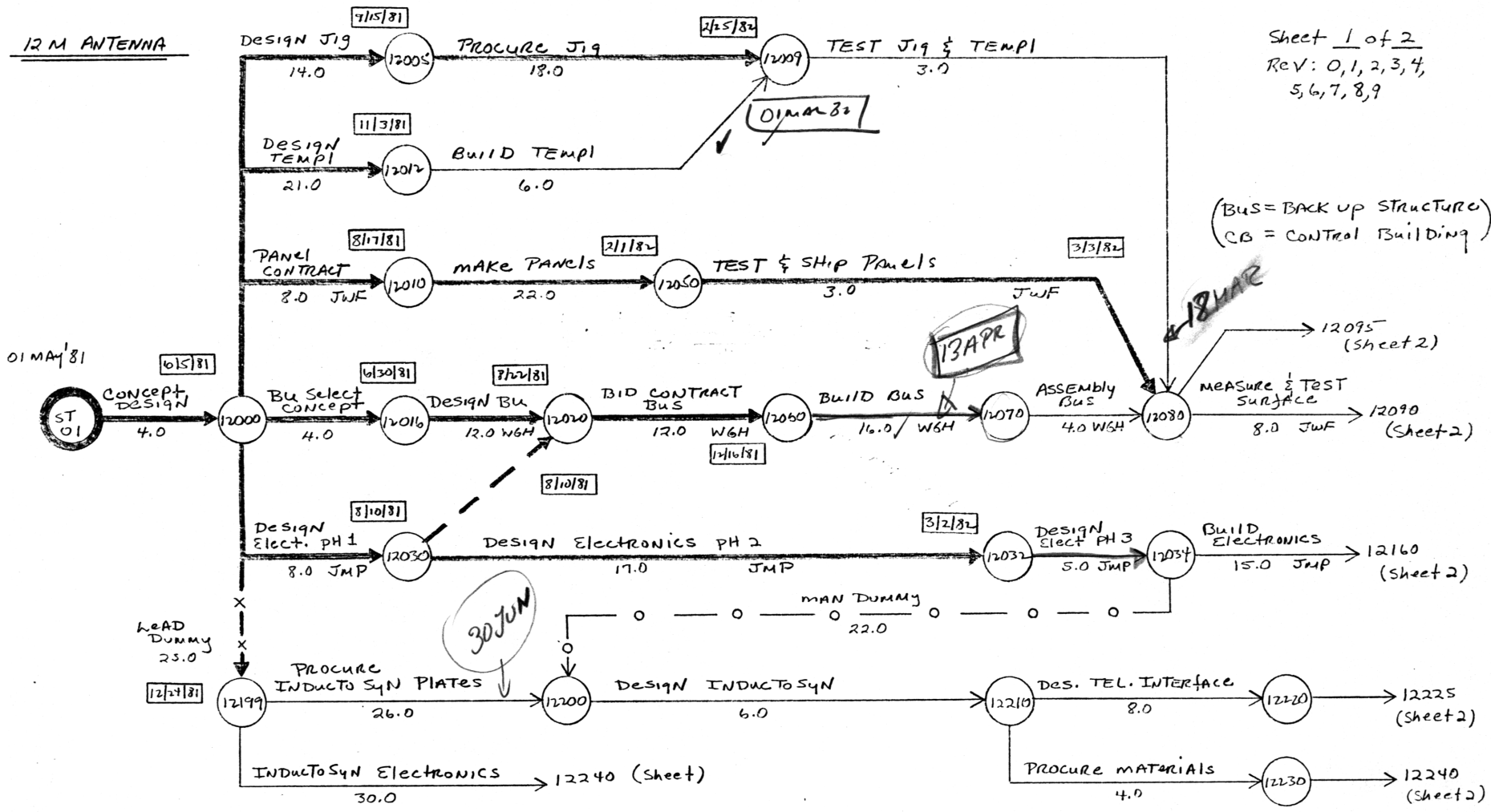


12 M ANTENNA

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

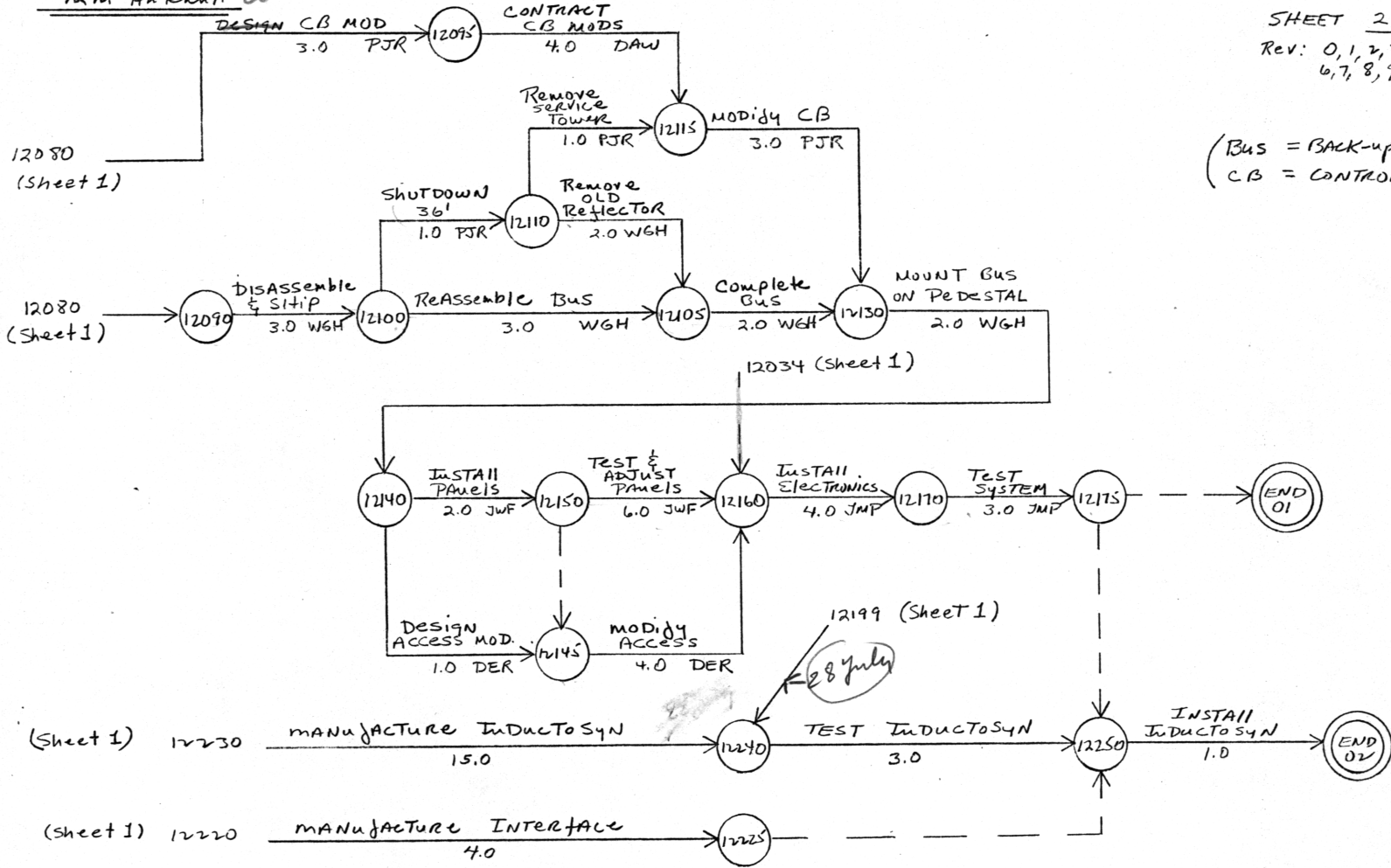
(BUS = BACK UP STRUCTURE)  
 (CB = CONTROL BUILDING)



12 METER MILLIMETER WAVE TELESCOPE  
 MEMO No. 137

12 M Ankenna Contract

SHEET 2 of 2  
 Rev: 0, 1, 2, 3, 4, 5,  
 6, 7, 8, 9



(BUS = BACK-up STRUCTURE)  
 (CB = CONTROL BUILDING)

28 July

NATIONAL RADIO ASTRONOMY OBSERVATORY  
ACTIVITY TIME STATUS REPORT

PROGRAM 02MAR82 REPCRT DATE. 12M TELESCOPE PROJECT.  
PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001  
ANT012

RUN DATE 02MAR82

LEVEL DETAIL

SCRPTD BY PRED,SUCC

PRED EVLNT	SUCC EVENT	CY. CD.	ACTIVITY DESCRIPTION	TIME EST	SLACK PRIM. SEC.	EARLY START	DATES FINISH	LATE START	DATES FINISH	SCHED.	DEPT
	ST01 S		BEGIN		.0	A01MAY81	A01MAY81	01MAY81	01MAY81		
	ST01 12000		CONCEPT DESIGN	04.0	.0	A01MAY81	A08JUN81	01MAY81	08JUN81		
END01		E			.0	30DEC82	30DEC82	30DEC82	30DEC82		
END02		E			.0	21JAN83	21JAN83	21JAN83	21JAN83		
12000	12005		DESIGN JIG	14.0	7.6	A08JUN81	A15SEP81	08JUN81	06NOV81		
12000	12010		PANEL CONTRACT	08.0	9.8	A08JUN81	A17AUG81	08JUN81	26OCT81		JWF
12000	12012		DESIGN TEMPL	21.0	17.0	A08JUN81	A03NOV81	08JUN81	09MAR82		
12000	12016		SELECT CONCEPT	04.0	.0	A08JUN81	A30JUN81	08JUN81	30JUN81		
12000	12030		ELECTRONICS DESIGN PH 1	08.0	6.0	A08JUN81	A10AUG81	08JUN81	22SEP81		JMP
12000	12199		LEAD DUMMY	25.0	.0	A08JUN81	A24DEC81	08JUN81	24DEC81		XX
12005	12009		PROCURE JIG	18.0	7.6	A15SEP81	X25FEB82	06NOV81	20APR82		
12009	12080		TEST JIG & TEMPL	03.0	7.6	25FEB82	18MAR82	20APR82	11MAY82		
12010	12050		MAKE PANELS	22.0	9.8	A17AUG81	A01FEB82	26OCT81	13APR82		JWF
12012	12009		BUILD TEMPL	06.0	17.0	A03NOV81	16DEC81	09MAR82	20APR82		
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	00.00	6.0	A10AUG81	A10AUG81	22SEP81	22SEP81		
12030	12032		DESIGN ELECTRONICS PH 2	17.0	12.2	A10AUG81	A02MAR82	22SEP81	26MAY82		JMP
12032	12034		DESIGN ELECTRONICS PH 3	05.0	12.2	A02MAR82	06APR82	26MAY82	30JUN82		JMP
12034	12160		BUILD ELECTRONICS	15.0	16.0	06APR82	20JUL82	27JUL82	10NOV82		JMP
12034	12200		MAN DUMMY	00.00	12.2	06APR82	06APR82	30JUN82	30JUN82		XX
12050	12080		TEST & SHIP PANELS	03.0	9.8	A01FEB82	X03MAR82	13APR82	11MAY82		JWF
12060	12070		BUILD BUS	16.0	.0	A16DEC81	13APR82	16DEC81	13APR82		WGH
12070	12080		ASSEMBLY BUS	04.0	.0	13APR82	11MAY82	13APR82	11MAY82		WGH
12080	12090		MEASURE & TEST SURFACE	08.0	.0	11MAY82	06JUL82	11MAY82	06JUL82		JWF
12080	12095		DESIGN CB MCD.	03.0	6.0	11MAY82	01JUN82	22JUN82	13JUL82		PJR
12090	12100		DISASSEMBLE & SHIP	02.0	.0	06JUL82	27JUL82	06JUL82	27JUL82		WGH
12095	12115		CONTRACT CB MCD.	04.0	6.0	01JUN82	29JUN82	13JUL82	10AUG82		DAK
12100	12105		REASSEMBLE BUS	03.0	.0	27JUL82	17AUG82	27JUL82	17AUG82		WGH
12100	12110		SHUT DCWN 36FT	01.0	.0	27JUL82	03AUG82	27JUL82	03AUG82		PJP
12105	12130		COMPLETE BUS	02.0	.0	17AUG82	31AUG82	17AUG82	31AUG82		WGH
12110	12105		REMOVE OLD REFLECTOR	02.0	.0	03AUG82	17AUG82	03AUG82	17AUG82		WGH
12110	12115		REMOVE SERVICE TOWER	01.0	.0	03AUG82	10AUG82	03AUG82	10AUG82		PJR
12115	12130		MODIFY CB	03.0	.0	10AUG82	31AUG82	10AUG82	31AUG82		PJR
12130	12140		MOUNT BUS ON PEDESTAL	02.0	.0	31AUG82	15SEP82	31AUG82	15SEP82		WGH
12140	12145		DESIGN ACCESS MCD.	01.0	3.0	15SEP82	22SEP82	06OCT82	13OCT82		DER
12140	12150		INSTALL PANELS	02.0	.0	15SEP82	29SEP82	15SEP82	29SEP82		JWF
12145	12160		MODIFY ACCESS	04.0	2.0	29SEP82	27OCT82	13OCT82	10NOV82		DER
12150	12145		DUMMY	00.00	2.0	29SEP82	29SEP82	13OCT82	13OCT82		
12150	12160		TEST & ADJUST PANELS	06.0	.0	29SEP82	10NOV82	29SEP82	10NOV82		JWF
12160	12170		INSTALL ELECTRONICS	04.0	.0	10NOV82	09DEC82	10NOV82	09DEC82		JMP
12170	12175		TEST SYSTEM	03.0	.0	09DEC82	30DEC82	09DEC82	30DEC82		JMP
12175	END01		DUMMY	00.00	.0	30DEC82	30DEC82	30DEC82	30DEC82		
12175	12250		DUMMY	00.00	2.2	30DEC82	30DEC82	14JAN83	14JAN83		
12199	12200		PKCG. INDUCTOSYNS PLATES	26.0	.0	A24DEC81	30JUN82	24DEC81	30JUN82		
12199	12240		INDUCTOSYN ELECTRONICS	30.0	21.0	A24DEC81	28JUL82	26MAY82	24OCT82		

PROGRAM 02MAR82 REPORT DATE. 12M TELESCOPE PROJECT.  
PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001  
ANT012

RUN DATE 02M

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 SCHED.
12200	12210		DESIGN INDUCTOSYNS	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	00.0	10.0	04NOV82	04NOV82	14JAN83	14JAN83	
12230	12240		MFG. INDUCTOSYNS	15.0	.0	09SEP82	24DEC82	09SEP82	24DEC82	
12240	12250		TEST INDUCTOSYNS	03.0	.0	24DEC82	14JAN83	24DEC82	14JAN83	
12250	END02		INSTALL INDUCTOSYNS	01.0	.0	14JAN83	21JAN83	14JAN83	21JAN83	

NATIONAL RADIC ASTRONMY OBSERVATORY  
ACTIVITY BAR CHART

PROGRAM 02MAR82 REPORT DATE. 12M TELESCOPE PROJECT.  
PROJECT 12M ANTENNA UPGRAIDING PROJECT.

12M001  
ANT012

RUN DATE 82

PRED EVENT	SUCC EVENT	CY CD	DESCRIPTION	A - ACTIVITY COMPLETE * - ACTIVITY DURATION	P - 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	12009		PROCURE JIG	AAAAAAAAAAAAAAAAAAAAA:	.	25FEB82			
12005	12080		TEST JIG & TEMPL	*****-----	.	18MAR82			
12010	12050		MAKE PANELS	AAAAAAAAAAAAA:AAAAA	.	01FEB82	JWF		
12012	12009		BUILD TEMPL	*****-----	.	16DEC81			
12016	12020		DESIGN BUS	.	.	22SEP81	WGH		
12020	12060		BID, CONTRACT BUS	AAAAAAAAAAAAA	.	16DEC81	WGH		
12030	12032		DESIGN ELECTRONICS PH 2	AAAAAAAAAAAAAAAAAAAAA	.	02MAR82	JMP		
12032	12034		DESIGN ELECTRONICS PH 3	*****-----	.	06APR82	JMP		
12034	12160		BUILD ELECTRONICS	.	*****-----	20JUL82	JMP		
12050	12080		TEST & SHIP PANELS	AAAAA	.	03MAR82	JWF		
12060	12070		BUILD BUS	PPPPPPPPPPPPPPPPPP	.	13APR82	WGH		
12070	12080		ASSEMBLY BUS	.	PPPPP	11MAY82	WGH		
12080	12090		MEASURE & TEST SURFACE	.	PPPPPPPP	06JUL82	JWF		
12080	12095		DESIGN CB MCD.	.	*****-----	01JUN82	PJR		
12090	12100		DISASSEMBLE & SHIP	.	PPPP	27JUL82	WGH		
12095	12115		CONTRACT CB MCDS.	.	*****-----	29JUN82	DAW		
12100	12105		REASSEMBLE BUS	.	PPPP	17AUG82	WGH		
12100	12110		SHUT DCWN 36FT	.	PP	03AUG82	PJR		
12105	12130		COMPLETE BUS	.	PP	31AUG82	WGH		
12110	12105		REMOVE OLD REFLECTOR	.	PPP	17AUG82	WGH		
12110	12115		REMOVE SERVICE TOWER	.	PP	10AUG82	PJR		
12115	12130		MODIFY CB	.	PPP	31AUG82	PJR		
12130	12140		MOUNT BUS ON PEDESTAL	.	PPP	15SEP82	WGH		
12140	12145		DESIGN ACCESS MCD.	.	**-----	22SEP82	DER		
12140	12150		INSTALL PANELS	.	PPP	29SEP82	JWF		
12145	12160		MODIFY ACCESS	.	*****-----	27OCT82	DER		
12150	12160		TEST & ADJUST PANELS	.	PPPPPPP	10NOV82	JWF		
12160	12170		INSTALL ELECTRONICS	.	PPPPP	09DEC82	JMP		
12170	12175		TEST SYSTEM	.	PPP	30DEC82	JMP		
12199	12200		PRCC. INDUCTOSYNS PLATES	PPPPPPPPPPPPPPPPPPPPPP	.	30JUN82			
12199	12240		INDUCTOSYN ELECTRONICS	*****-----	.	28JUL82			
12200	12210		DESIGN INDUCTOSYNS	.	PPPPPPP	11AUG82			
12210	12220		DES. TEL INTERFACE	.	*****-----	07OCT82			
12210	12230		PROCURE MAT.	.	PPPPP	09SEP82			
12220	12225		MFG. INTERFACE	.	*****-----	04NOV82			
12230	12240		MFG. INDUCTOSYNS	.	PPPPPPPPPPPPPPPP	24DEC82			
12240	12250		TEST INDUCTOSYNS	.	PPP	14JAN83			
12250	END02		INSTALL INDUCTOSYNS	.	.PP	21JAN83			
				01JAN82	01APR82	01JUL82	01OCT82	01JAN83	01APR83

NATIONAL RADIO ASTRONOMY OBSERVATORY  
ACTIVITY TIME STATUS REPORT

PROGRAM 02MAR82 REPORT DATE. 12M TELESCOPE PROJECT.  
PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001  
ANT012

RUN DATE 02M

LEVEL DETAIL

SCRPTD BY EXP. DATE

PRED EVENT	SUCC EVENT	CY. CD.	ACTIVITY DESCRIPTION	TIME EST	SLACK PRIM. SEC.	EARLY START	DATES FINISH	LATE START	DATES FINISH	DEPT
12012	12009		BUILD TEMPL	06.0	17.0	A03NOV81	16DEC81	09MAR82	20APR82	
12009	12080		TEST JIG & TEMPL	03.0	7.6	25FEB82	18MAR82	20APR82	11MAY82	
12060	12070		BUILD BUS	16.0	.0	A16DEC81	13APR82	16DEC81	13APR82	WGH
12199	12200		PRCC. INDUCTOSYNS PLATES	26.0	.0	A24DEC81	30JUN82	24DEC81	30JUN82	
12199	12240		INDUCTOSYN ELECTRONICS	30.0	21.0	A24DEC81	28JUL82	26MAY82	24DEC82	