

B	DEPARTMENT	LOCATION	DATE
B.Ghiorso/DNB	Mechanical Engineering	Berkeley	10/24/01
GRAM - PROJECT - JOB INDUCTION LINAC SYSTEMS EXPERIMENT (ILSE) AND DECENDANTS UPDA			
NERAL			
CATEGORY CODES			

ENGINEERING NOTES: HF XX XX

DRAWINGS: 58 XX XX

DRAWING CAT.CODES SUBSYSTEMS

GENERAL ILSE

58	41	GENERAL
	01	Conceptual Design
	02	Management, Cost, & Schedule
	03	Building & Facilities
	04	Component Development

INJECTOR

58	42	INJECTOR
	01	Support & Alignment
	02	Pressure Vessel
	03	Marx Generator
	04	Ion Source
	05	Acceleration Column
	06	Vacuum System
	07	Utilities (Gas, water, etc)
	08	Diagnostics
	09	Component Development
	10	Installation & Testing

ELECTRIC FOCUS ACCELERATION SECTION

58	43	ELECTRIC FOCUS ACCELERATION SECTION
	01	Support & Alignment
	02	Electrostatic Quadrupole
	03	Induction Core
	04	Power Supply-Induction & Fast Corrector
	05	Vacuum System
	06	Utilities
	07	Diagnostics

58	44	COMBINER/TRANSFER SECTION
	01	Support & Alignment
	02	Electrostatic Quadrupole
	03	Bending Dipoles
	04	Power Supply
	05	Vacuum System
	06	Utilities
	07	Diagnostics

MAGNETIC FOCUS ACCELERATION SECTION

58	45	MAGNETIC FOCUS ACCELERATION SECTION
	01	Support & Alignment
	02	Magnetic Quadrupole
	03	Induction Core
	04	Power Supply-Induction & Fast Corrector
	05	Vacuum System
	06	Utilities
	07	Diagnostics

MATCHING SECTION

58	46	MATCHING SECTION
	01	Support & Alignment
	02	Electrostatic Quadrupoles
	03	Power Supply
	04	Vacuum System
	05	Utilities
	06	Diagnostics

BITS-BEAMLINTEGRATION TEST STAND

58	47	BITS
	01	Electro Static Quadrupoles
	02	Vacuum Zipper
	03	High Voltage Feedthrus
	04	Support Structure
	05	Articulation Hardware
	06	Vacuum System
	07	Diagnostics
	08	Laser Alignment

FINAL FOCUS

58	48		FINAL FOCUS
		01	Support and Alignment
		02	Quadrupole-Magnetic
		03	Quadrupole-Electrostatic
		04	Vacuum System
		05	Ion Source
		06	Ion Source Replenishment System
		07	Target Injector
		08	Diagnostics

General Tests

58	49		HIF General Tests
		0X	400KV Test Stand
			0 General/Misc.
			1 Vessel
			2 Support & Alignment
			3 Ion Sources
			4 Diagnostics
			5 Controls
		1X	Small Source Test Stand
			0 General/Misc.
			1 Vessel
			2 Support & Alignment
			3 Ion Sources
			4 Diagnostics
			5 Controls
		2X	Mevva Experiment
			0 General/Misc.
			1 Vessel
			2 Support & Alignment
			3 Ion Sources
			4 Diagnostics
			5 Controls
		3X	LLNL Test Stand
			0 General/Misc.
			1 Vessel
			2 Support & Alignment
			3 Ion Sources
			4 Diagnostics
			5 Controls

4X		Infrastructure
	0	General/Misc.
	1	Technical Shops
	2	Experimental Areas
5X		NA
6X		NA

HGX

58	50		HIF - HGX EXPERIMENT
	0X		GENERAL
		1	Conceptual Design
		2	Building & Facilities
	1X		INJECTOR
		1	Ion Source
		2	Acceleration Column
		3	Diagnostics
	2X		MATCHING SECTION
		1	Support & Alignment
		2	High Voltage System
		3	Upstream Diagnostics
	3X		ELECTROSTATIC TRANSPORT
		1	Support & Alignment
		2	High Voltage System
		3	Upstream Diagnostics
	4X		MAGNETIC QUADRUPOLES
		1	Support & Alignment
		2	High Voltage System
		3	Upstream Diagnostics
	5X		END STATION DIAGNOSTIC
		1	Support & Alignment
		2	Diagnostics

NTX

58	51		NTX EXPERIMENT
	0X		GENERAL
		1	General/Misc.
		2	Conceptual Design Layouts
	1X		QUADRAPOLE MAGNET
		1	Coils and Leads
		2	Winding Fixtures
		3	Flux Return Core
		4	Potting Mold

2X		OCTAPOLE MAGNET
	1	Coil and Leads
	2	Winding Fixtures
	3	Potting Mold
	4	Pulser
3X		MAGNET SUPPORT SYSTEM
	1	Magnet Supports
	2	Beamtube and End Flanges
4X		Diagnostics
	1	Diagnostic Box
	2	Diagnostics
5X		MAGNET MEASUREMENTS
	1	Magnet Measurement Design