**Preferred path forward : install the new ¼ CM which will be ready for UITF in July**

February 2016

Cave1 electrical work complete

Facilities has issued PR for Cave2 concrete and bracing, out for bids

Cryo: installed transfer line from spigot to ¼ CM location

Installation Group finished Cave1 PSS conduit and cable trays

Engineering Staff stuffing the racks, pulling cables

Ops Sys Admin: Network communications installed, terminals in control room

Ops Software installing software

CIS building gun and keV beamline

March

Facilities moves the IPC power panel outside Cave2

Installation Group installing other utilities: PSS conduit, LCW, compressed air, GN2

RF group installing control modules and klystrons

Engineering stuffing the racks, pulling cables, working with Ops Software when appropriate

CIS building gun and keV beamline

April

Cryo: CTF connection to ¼ CM + the controls complete

RF group installing klystron controls and waveguides

Engineering stuffing the racks, pulling cables, working with Ops Software when appropriate

Installation group finishes the PSS box conduit, LCW, compressed air and GN2 installation inside Cave2

SSG working on PSS and ODH systems

Concrete for Cave2 arriving on site, installing it

Physics installs 2nd layer of concrete, adds bracing

CIS building gun and keV beamline

May

RF group installing klystron controls and waveguides, complete

Cave2 including labyrinth complete, roof not yet installed

Engineering stuffing the racks, pulling cables, working with Ops Software when appropriate

CIS building gun and keV beamline

June

Facilities focus shifts to utilities inside Cave2: electricity, lights, fire suppression, gate

SSG working on PSS and ODH systems

RadCon working on CARM system

SRF Institute completes the construction of the new ¼ CM, tests it inside CMTF

Cryo working on u-tubes for ¼ CM

CIS building the MeV beamline

July

Cryo begins installing warm return from HDIce

Facilities continues to work on utilities inside Cave2: electricity, lights, fire suppression, gate

SSG completes the PSS and ODH systems

RadCon finishes CARM system

SRF Institute installs the new ¼ CM at UITF

Cryo group manufactures/installs u-tubes for ¼ CM

**At this point we can consider applying RF to cold ¼ CM. This could require temporary shielding an approved OSP, or portable ODH and CARM systems if these systems aren’t ready yet**

CIS building the MeV beamline

August

Cryo installing warm return from HDIce boil off

Facilities completes utilities inside Cave2: electricity, lights, fire suppression, gate, entire Cave2 roof installed. All bracing complete

Facilities provides power to big Bertha from deisel generator (could happen later)

CIS building the MeV beamline

Engineering connecting MeV beamline components to racks and controls

EHS&Q reveiws and paper work complete, full approval to apply RF to cold ¼ CM, and to apply voltage to gun, to start making beam

**Cool the new ¼ CM and apply RF, one to two weeks (?) of CTF**

HV commission the gun

September

Cryo finishes installing warm return from HDIce boil off

**CIS making keV beam**

CIS finishes the construction of MeV beamline, to cup upstream of HDIce

Engineering finishes work on I&C and magnets MeV beamline

**Beam tests at MeV, beam delivered to cup upstream of HDIce (two weeks of CTF)**

October

CIS demonstrates gun at 350kV

CIS continues to make beam, keV and MeV beam when compatible with SRF plans

November, December

Team HDIce begins moving equipment into Cave2

Cryo manufactures u-tubes for HDIce, to buffer dewar

January, 2017

First Cool down of HDIce

February, 2017

First beam into IBC, empty target study

April, 2017

**First beam on polarized HD target**