LCLS-II Cryomodule P&ID Legend

TX Cernox high temperature shield
HTS

STX spare Cernox high temperature shield
HTS

LT Helium liquid level Upstream
US

PT Helium Pressure Upstream
US

LT Helium Liquid level Downstream
DS

PT Helium Pressure Downstream
DS

HT Heater helium bath
BTH

SHT Spare heater helium bath
BTH

TX Cernox on Beam Position Monitor
BPM

BPM Beam Position Monitor signal

3GP Three geophones

TX Cernox on Line A in the center
AC

TX Cernox on Line B at the top
BT

TX Cernox on Line B at the bottom
BB

TX Cernox on Line F in the center
FC

TX Cernox on line E in the center
EC

TX Cernox on line D in the center
DC

TX Cernox on line C in the center
CC

HCL Horizontal current leads

VCL Vertical current leads

QCL Quadrupole current leads

TX Cernox on the magnet (quantity undecided)
M

HVT Horizontal voltage taps

MHT Magnet heater

VVT Vertical voltage taps

Each cavity (# is representative of the cavity number)

SM Tuner stepper motor signal
TU#

TX Cernox on tuner
TU#

TX Cernox on Upstream HOM
UH#

TX Cernox on Downstream HOM
DH#

TX Cernox on tuner stepper motor
SM#

TX Cernox on Cavity helium vessel
CV#

FP1 Field Probe 1
CV#

FP2 Field probe 2
CV#

FP3 Field probe 3
CV#

RF RF power in
CP#

RF RF pickup
PU#

HOM HOM RF Upstream
US#

HOM HOM RF Downstream
DS#

TP Platinum RTD on coupler
CP#

STP Spare Platinum RTD on coupler
CP#