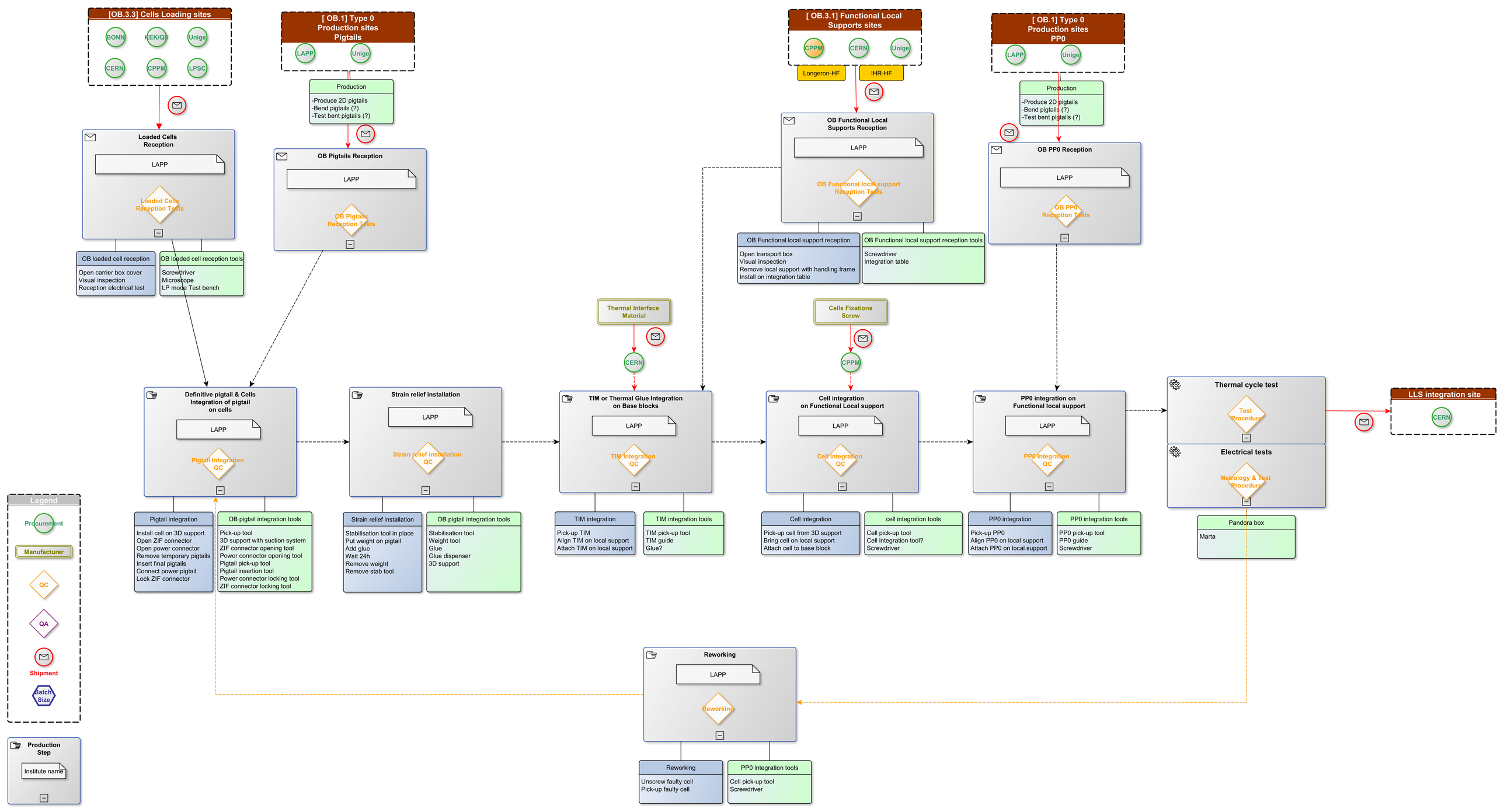
[OB.3.3] Cells Loading sites
BONN
KEK/QU
Unige
CERN
CPPM
LPSC
[OB.1] Type 0 Production sites Pigtails
LAPP
Unige
Production
-Produce 2D pigtails
-Bend pigtails (?)
-Test bent pigtails (?)
[OB.3.1] Functional Local Supports sites
CPPM
CERN
Unige
Longeron-HF
IHR-HF
[OB.1] Type 0 Production sites PP0
LAPP
Unige
Production
-Produce 2D pigtails
-Bend pigtails (?)
-Test bent pigtails (?)
Loaded Cells Reception
LAPP
Loaded Cells Reception Tests
OB Pigtails Reception
LAPP
OB Pigtails Reception Tests
OB Functional Local Supports Reception
LAPP
OB Functional local support Reception Tests
OB PP0 Reception
LAPP
OB PP0 Reception Tests
OB loaded cell reception
Open carrier box cover
Visual inspection
Reception electrical test
OB loaded cell reception tools
Screwdriver
Microscope
LP mode Test bench
OB Functional local support reception
Open transport box
Visual inspection
Remove local support with handling frame
Install on integration table
OB Functional local support reception tools
Screwdriver
Integration table
Thermal Interface Material
CERN
Cells Fixations Screw
CPPM
Definitive pigtail & Cells Integration of pigtail on cells
LAPP
Pigtail Integration QC
Strain relief installation
LAPP
Strain relief installation QC
TIM or Thermal Glue Integration on Base blocks
LAPP
TIM Integration QC
Cell integration on Functional Local support
LAPP
Cell Integration QC
PP0 integration on Functional local support
LAPP
PP0 Integration QC
Thermal cycle test
Test Procedure
Electrical tests
Metrology & Test Procedure
LLS integration site
CERN
Pigtail integration
Install cell on 3D support
Open ZIF connector
Open power connector
Remove temporary pigtails
Insert final pigtails
Connect power pigtail
Lock ZIF connector
OB pigtail integration tools
Pick-up tool
3D support with suction system
ZIF connector opening tool
Power connector opening tool
Pigtail pick-up tool
Pigtail insertion tool
Power connector locking tool
ZIF connector locking tool
Strain relief installation
Stabilisation tool in place
Put weight on pigtail
Add glue
Wait 24h
Remove weight
Remove stab tool
OB pigtail integration tools
Stabilisation tool
Weight tool
Glue
Glue dispenser
3D support
TIM integration
Pick-up TIM
Align TIM on local support
Attach TIM on local support
TIM integration tools
TIM pick-up tool
TIM guide
Glue?
Cell integration
Pick-up cell from 3D support
Bring cell on local support
Attach cell to base block
cell integration tools
Cell pick-up tool
Cell integration tool?
Screwdriver
PP0 integration
Pick-up PP0
Align PP0 on local support
Attach PP0 on local support
PP0 integration tools
PP0 pick-up tool
PP0 guide
Screwdriver
Pandora box
Marta
Legend
Procurement
Manufacturer
QC
QA
Shipment
Batch Size
Production Step
Institute name
Reworking
LAPP
Reworking
Reworking
Unscrew faulty cell
Pick-up faulty cell
PP0 integration tools
Cell pick-up tool
Screwdriver