

Integrated Cavity Processing Apparatus (ICPA) at Fermilab in IB4

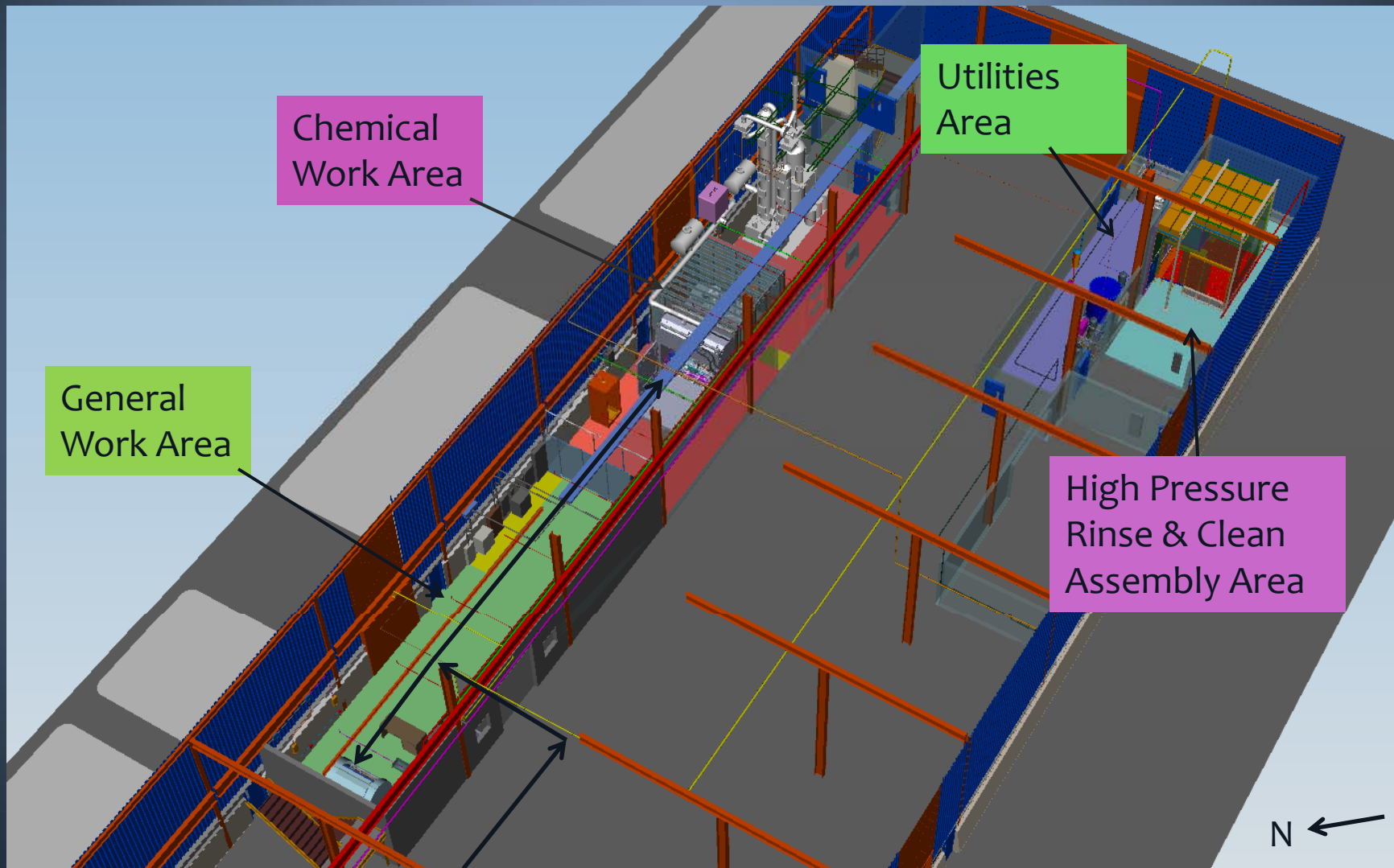


ICPA will be used to quickly process single cell cavities and sample
1 coupons to conduct processing and materials research and development.

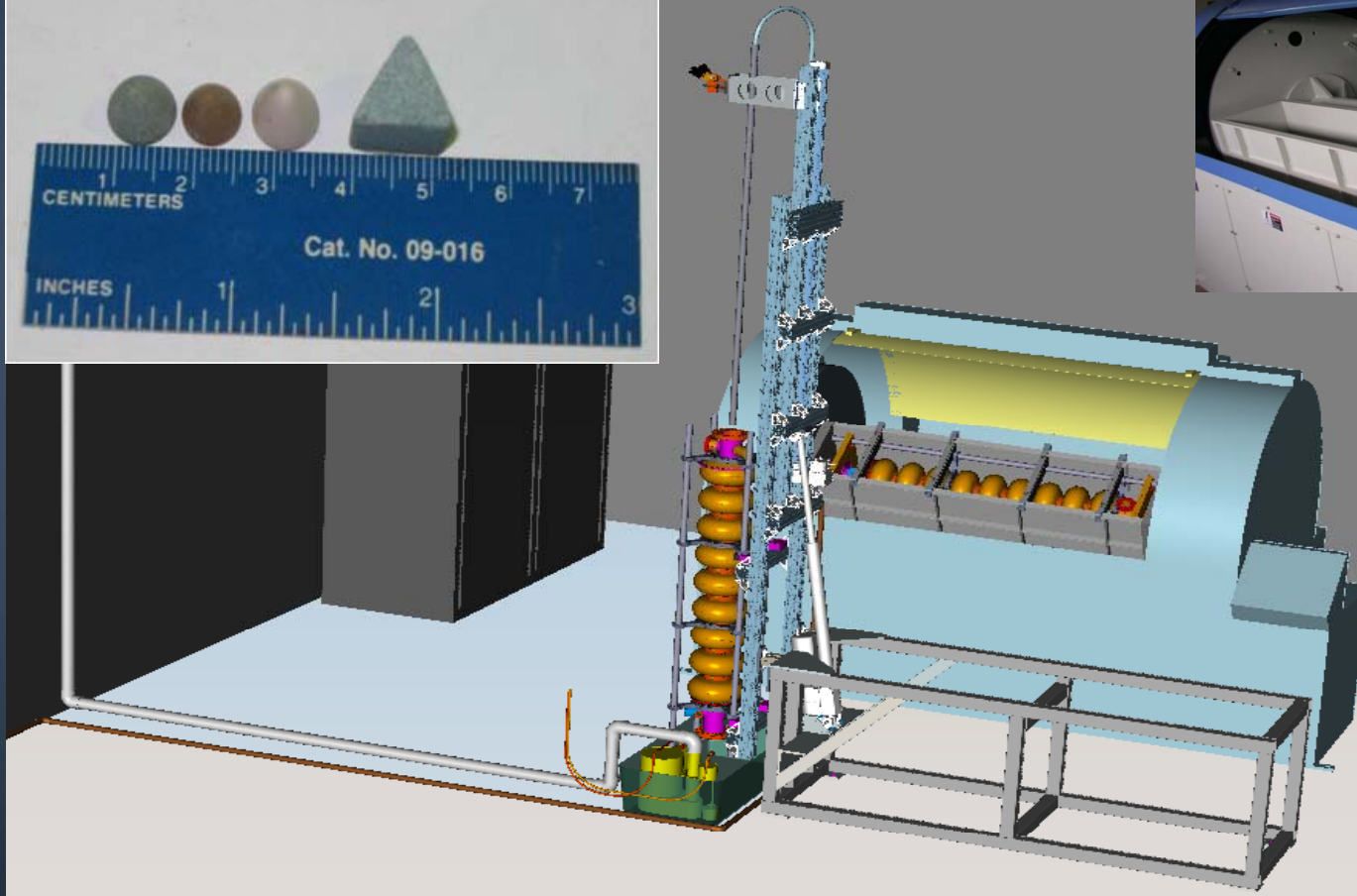
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General Layout of IB4 & Path of Cavity



Tumbling Area

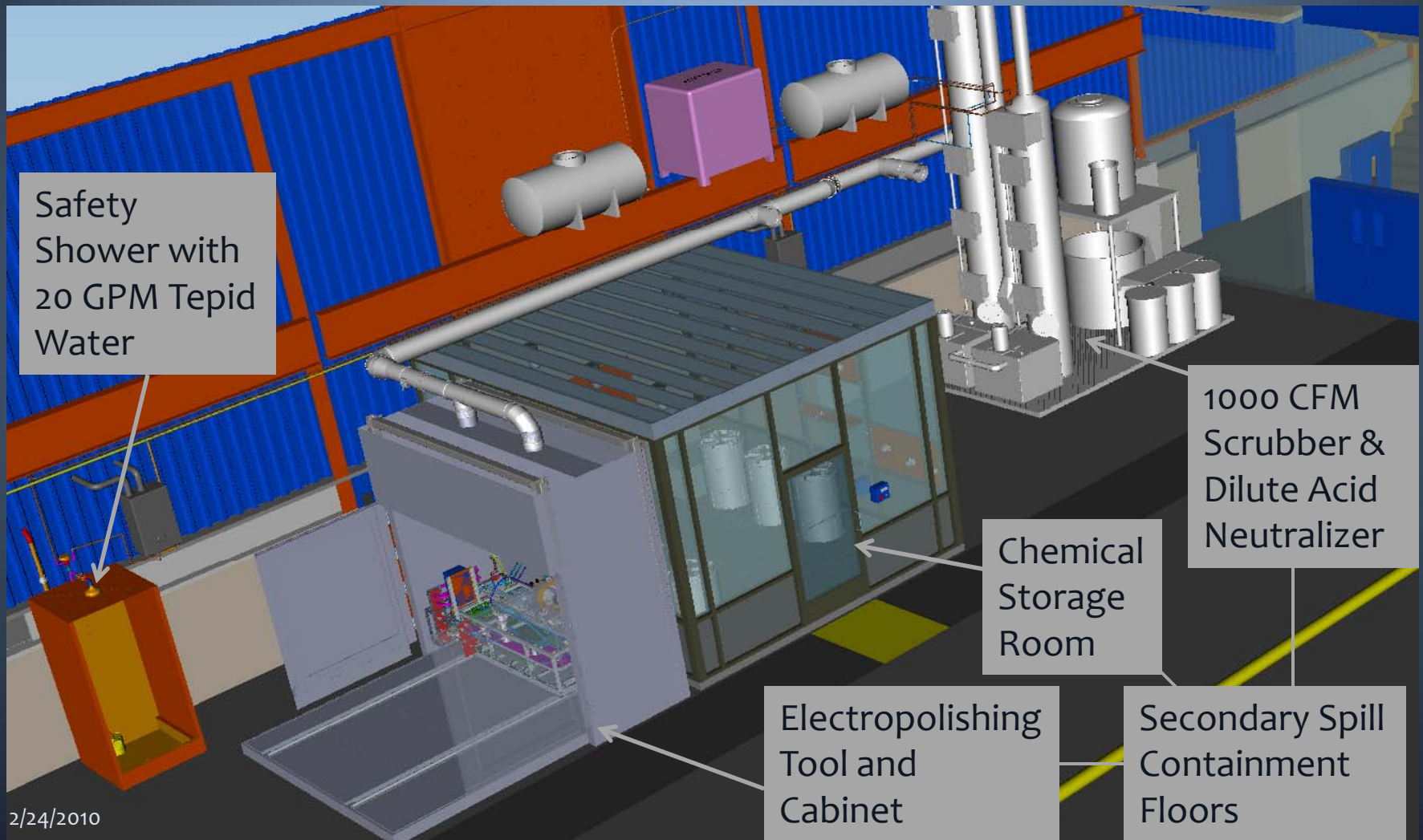


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Chemistry Area



4

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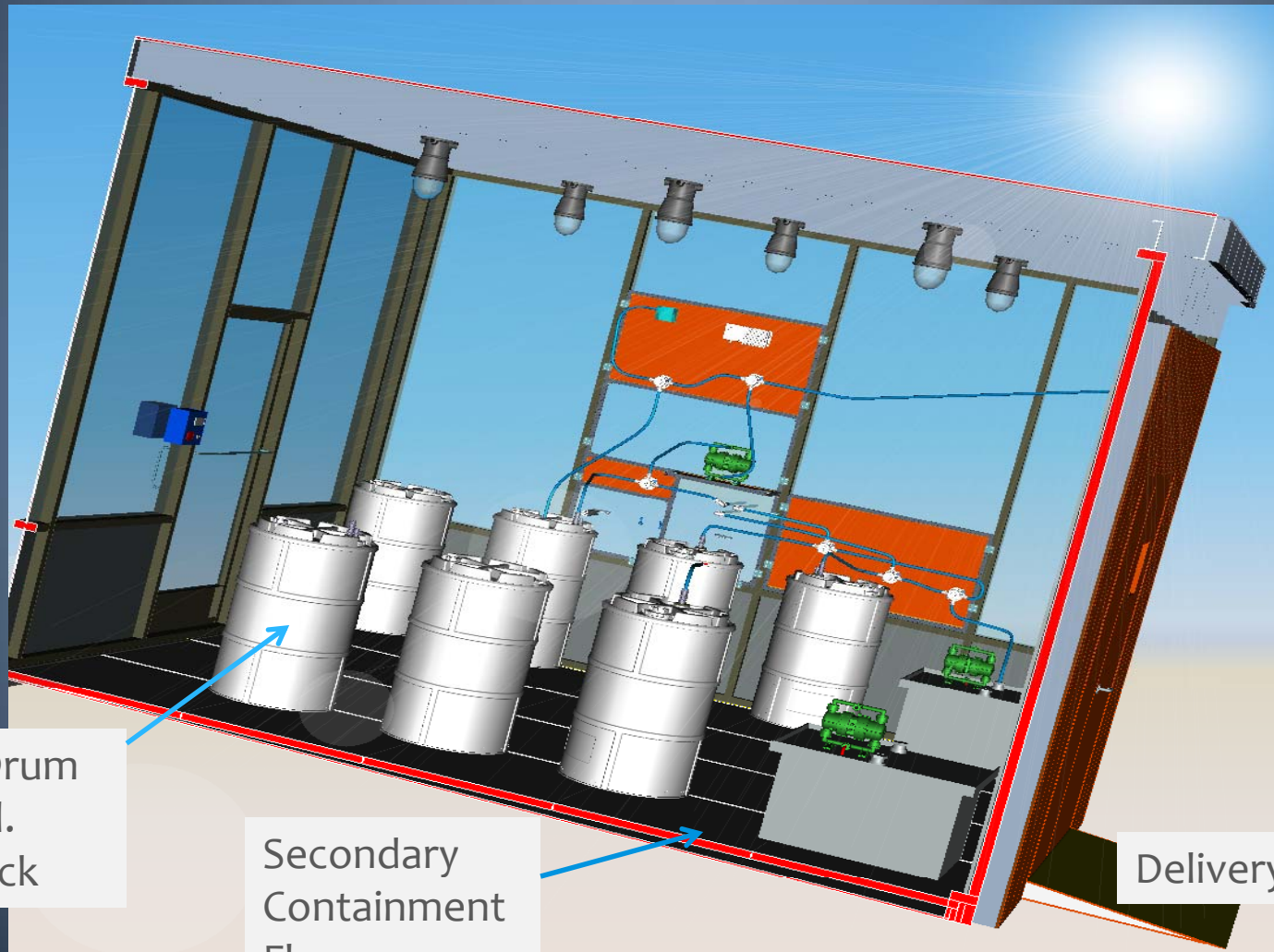
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Electropolishing Tool

- Operated in a cabinet to mediate any potential gas or vapor risks
- Process as “hands-free” as practical
- All wetted parts should be made out of PVDF, PFA, or PTFE
- Sled comes in and out of cabinet for ease of assembly/dissassembly
- Heavy integration of safety components in operation



Chemical Storage Room - Safety



30 Gal.Drum
in 55 Gal.
Over-pack

Secondary
Containment
Floor

Delivery Door

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Chemistry Area - Safety

- › Safe
- cons
- ICPA
- › 1000
- proc
- › Neu
- proc
- › All a
- chem
- cont
- auto
- whic
- › Seve
- › Safe



High Pressure Rinse – Clean Room Assembly Area

