

# Rack Recommendations

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# Review

- Previous presentation presented many options, this presentation will narrow the choices down.
- There are two major paths for node procurements, with a rack and without a rack.
- How to manage different procurements.
- Will not discuss in detail the actual procurement process. Beyond scope.

# Options

- Option one was to do what we have been doing with procurement, that is one vendor does it all.
- Option two is to decouple the rack procurement including rack infrastructure from the node procurement.

# Option details

- Option one stays the same as we understand it today. But try to improve timelines.
- Option two has several variations that can be incorporated into the procurement.
  - Buy nodes from vendor X.
  - Buy racks minus the nodes from vendor Y.
  - Contract vendor Z to assemble racks.

# Option details cont.

- Pre-buy racks and the internal parts to be assembled locally by qualified staff.
- Qualified local staff loads the racks with nodes.
- Could be other variations that can be employed.

# PRO's & CON's

- Option one PRO's
  - Single vendor to deal with, may appeal to customers who only buy a single rack every few years and do not have staff to manage a multiple vendor procurement.
  - Well understood process.

# PRO's & CONS's

- Option one CON's
  - We limit the number of vendors who will participate in the bid.
  - Procurement can be longer with delays in logistics of rack parts or system parts. Need to plan your timeline of procurement.

# PRO's & CON's

- Option two PRO's
  - Open the node procurement bid to vendors who only supply nodes or do not want to do rack solutions. More vendors can bid. Nodes may be cheaper in cost.
  - The procurement of nodes should be faster, due to no rack process included.

# PRO's & CON's

- Option CON's
  - This process requires additional separate bids to be placed and process, more work.
  - Depending on the degree of decoupling, there will be more work for managing a process that can have several different vendors doing work on the procurements.
  - Rack construction on site instead of at vendors factory.

# Misc

- It was discussed that bids can have options to include and not include racks in the same bid. We would have to access a cost to vendors who do not bid a rack to be able to properly compare bids that do include racks.
  - Probably will never do this.
- Qualified staff maybe ESE groups in CD.
- Need to allow other than amco racks.

# Conclusions

- There is room for better procurements.
- Several options have been presented, coupled or decoupled racks.
- We have in practice tested buying racks without nodes, ala CDF and D0 re-racking projects. It works.

# Recommendations

- We have two recommendations.
- The first one is to decouple racks procurement and further develop and refine procurements that decouple node procurement from rack procurement. Then use this process where it makes sense to deploy.

# Recommendations continued

- The second is that we continue to use the present procurement process where it makes sense to, but further refine the process to make the timelines shorter.