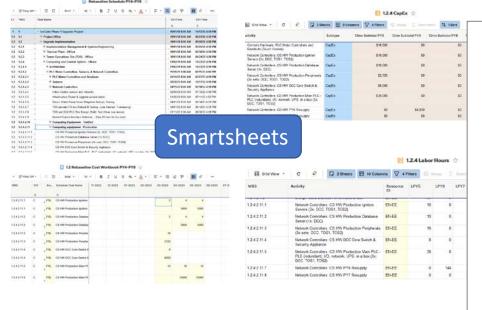


Describes L3 element Breaks down to L4 detail

> Many areas can stop here. More complicated areas, like 1.2, need more.

Last revision: 14 March 2022





BOE

Describes L3 element Breaks down to L4 detail

1.2.4.1 Architecture Drill requirements 1.2.4.2 Control System Hardware Motor controllers controllers, indoor 1.2.4.4 Motor Drives Last revision: 14 March 2022 **Estimate Worksheet** \$9,955.50 \$29,866.50 1 \$4,000.00 \$ 4,000.00 Engr judgement 1 \$4,000.00 \$ 4,000.00 Engr judgement

CECUBE

Total cost for this WBS: \$1,118,571

tions, which are consistent with the

Estimate Worksheet Tailored as needed

Basis of Estimate

5. Assumptions and Related Document The estimates described in this document a

(GAO) best practices. These ar

actuals; F=Parametric; L=Lear

described in the Key Assumptions document (1).

The scope of this BOE covers the following L4 areas:

· Contingency codes are assigned

Project's "Key Assumptions" documer The cost estimate technique cla

3. Estimated by Andrew Laundrie, Paul Wisniewski, & Terry Benson (University of Wisconsin

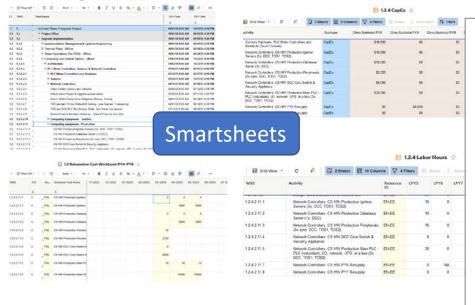
Includes development and perification of new drill control system software and hardware network senso e-stop, network and e-stop cabling and connectors, motor drives, and the Drill Control Center.

estimate. The meanings of the contingency codes and the percentage of contingency in each case ar

Describes an L4 element in more detail, to L5 or L6

For labor and materials that are estimated based on engr judgment or past experience, stop here





BOE

Describes L3 element Breaks down to L4 detail



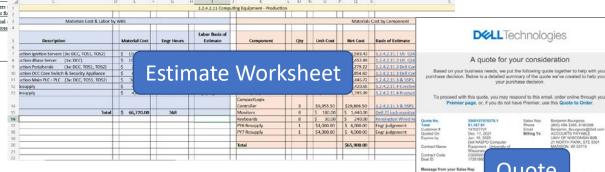
Estimate Worksheet

Last revision: 14 March 2022

1.2.4.4 Motor Drives

Tailored as needed

Describes an L4 element in more detail, to L5 or L6



Quote

Precision 3930 Rack

D¢LLTechnologies

A quote for your consideration

your purchase decision.

Quote

Copied into supporting folder, named in useful way



1.2 BOE & Supporting Docs Roadmap (Docushare ver.)

WBS	Name	ВОЕ	Estimate Worksheet	Vendor Quotes
	Docushare Collection:	<u>16499</u>	<u>16520</u>	<u>16522</u>
1.2.1	Management and Systems Engineering	<u>1.2.1 BOE</u>	n/a – All backup information within BOE	All in same collection
1.2.2	Thermal Plant	<u>1.2.2 BOE</u>	1.2.2 Est. Worksheet	
1.2.3	Tower Operations Site	<u>1.2.3 BOE</u>	1.2.3 Est. Worksheet	
1.2.4	Control System	<u>1.2.4 BOE</u>	1.2.4 Est. Worksheet	
1.2.5	Power Generation and Distribution	<u>1.2.5 BOE</u>	1.2.5 Est. Worksheet	
1.2.6	Water Handling Systems	<u>1.2.6 BOE</u>	1.2.6 Est. Worksheet	
1.2.7	Support Equipment	<u>1.2.7 BOE</u>	1.2.7 Est. Worksheet	
1.2.8	Drill Field Seasons	<u>1.2.8 BOE</u>	n/a – All backup information within BOE	
1.2.9	Installation – Off Ice	<u>1.2.9 BOE</u>	1.2.9 Est. Worksheet	
1.2.10	Installation – On Ice	<u>1.2.10 BOE</u>	n/a – All backup information within BOE	

See COLUMN "S" in

Estimate Worksheets
for rationale, basis, and
links to vendor quotes

