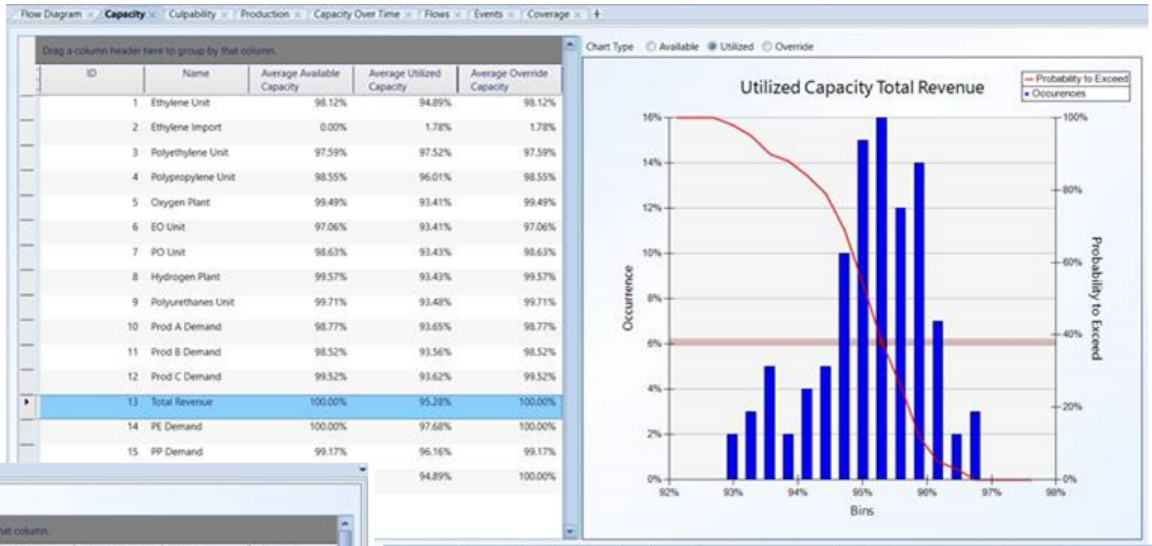
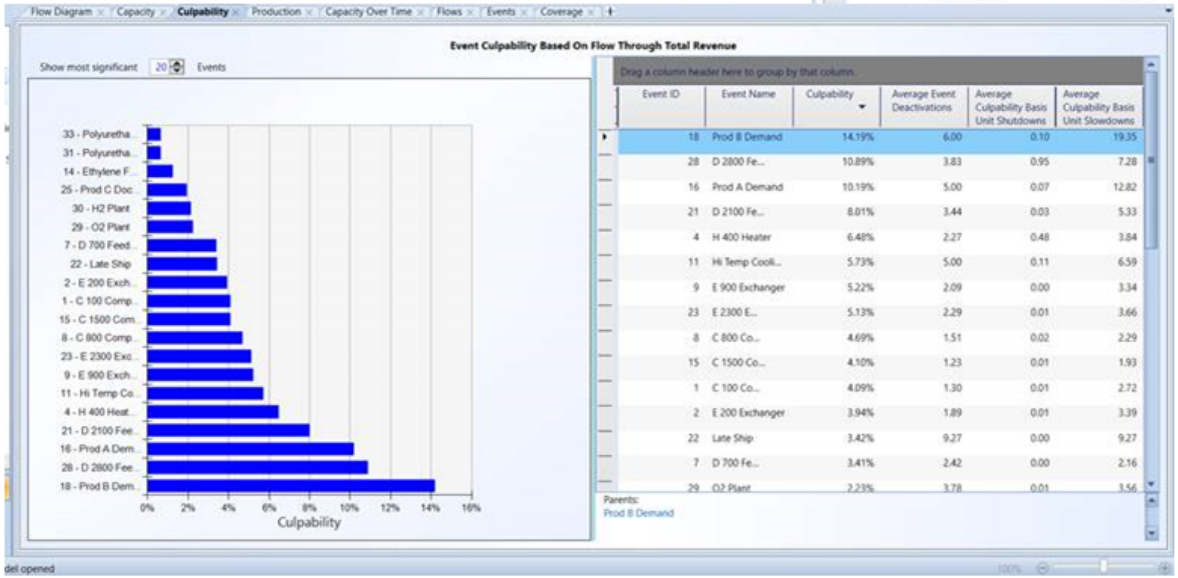
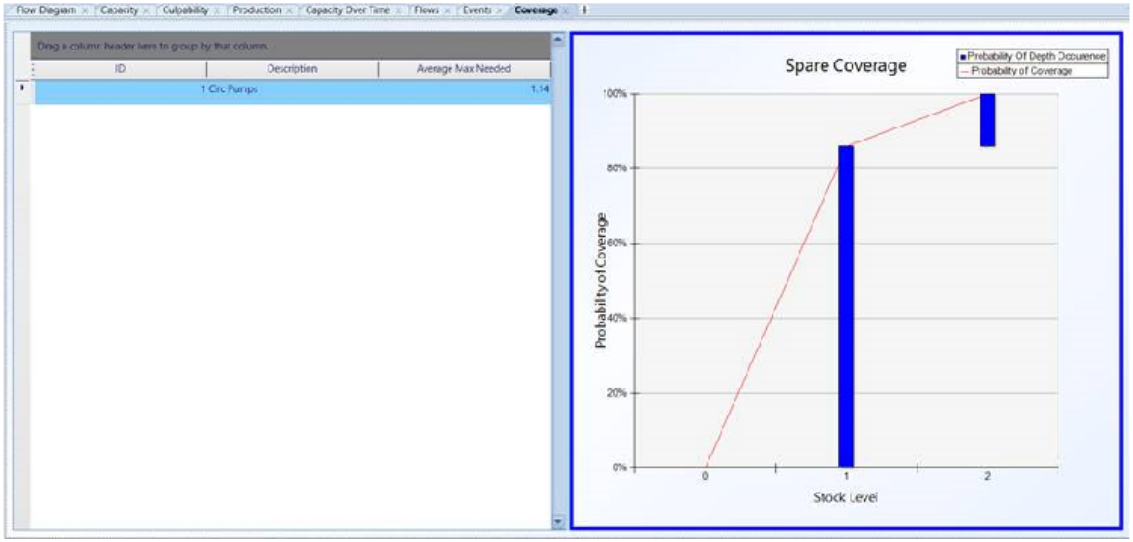
Justify the Value of Any Proposed Solutions

- The Base Case Predicts an Availability of 95.5% over the next 10 years
- Assumed a 100,000 BPD facility at $50/barrel
- Use Fidelis to Quantify Potential Design/Operations or Maintenance Changes

Description of Case	Facility Availability	Delta from Base Case	Delta $ Per Year
Base Case	95.5%	n/a	n/a
Remove Capex	94.1%	-1.4%	-$25.6M
Add Redundancy	95.7%	0.2%	$3.7M
Add Buffer Volume	96.7%	1.2%	$21.9M
Change Operating Procedures	96.1%	0.6%	$11M
Reduce Non-Essential Maintenance	96.8%	1.3%	$23.7M







Actuals | Deltas

	Base Case	Remove Capex	Add Redundancy	Add Buffer Volume	Change Operating Procedures	Reduce Non-Essential Maintenance
Facility Availability	95.5%	94.1%	97.7%	96.7%	96.1%	96.8%
$ Per Year						
⊖ Average Available Capacity						
Ethylene Unit	98.12%					
Ethylene Import	0.00%					
Polyethylene Unit	97.59%					
Oxygen Plant	99.49%					
EO Unit	97.06%					
PO Unit	98.63%					
Hydrogen Plant	99.57%					
Plyurethanes Unit	99.71%					
Prod A Demand	98.77%					
Prod B Demand	98.52%					
Prod C Demand	99.52%					
Total Revenue	100.00%					
PE Demand	99.17%					
PP Demand	99.17%					
Ethane	100.00%					
⊞ Average Utilized Capacity						
⊞ Average Override Capacity						
⊞ Culpability						
⊞ Average Event Deactivations						
⊞ Average Culpability Unit Shutdowns						
⊞ Average Culpability Unit Slowdowns						
⊞ Average Number of Full Events						
⊞ Average Number of Empty Events						

Might create supergroups of sections (the original tabs- Capacity, Culpability, Events, Coverage)

What is the user going to paste into their report?

Maybe everything below the top three lines is too much.

Could let users search for items and then add them to a custom table

Actuals | Deltas

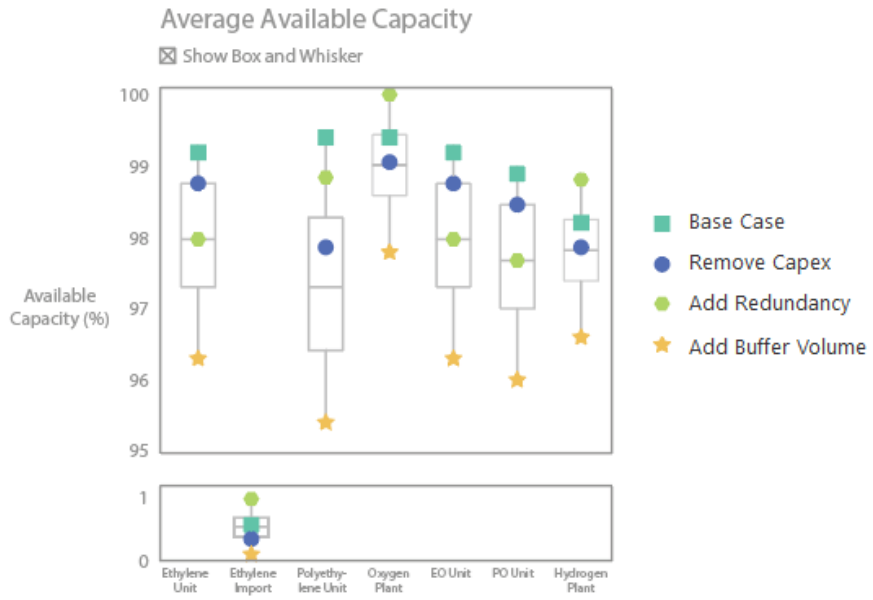
	Base Case	Remove Capex	Add Redundancy	Add Buffer Volume	Change Operating Procedures	Reduce Non-Essential Maintenance
Facility Availability	95.5%	-1.3%	+3.6%	+1.0%	+1.2%	+1.9%
$ Per Year						
⊖ Average Available Capacity						
Ethylene Unit	98.12%					
Ethylene Import	0.00%					
Polyethylene Unit	97.59%					
Oxygen Plant	99.49%					
EO Unit	97.06%					
PO Unit	98.63%					
Hydrogen Plant	99.57%					
Plyurethanes Unit	99.71%					
Prod A Demand	98.77%					
Prod B Demand	98.52%					
Prod C Demand	99.52%					
Total Revenue	100.00%					
PE Demand	99.17%					
PP Demand	99.17%					
Ethane	100.00%					
⊕ Average Utilized Capacity						
⊕ Average Override Capacity						

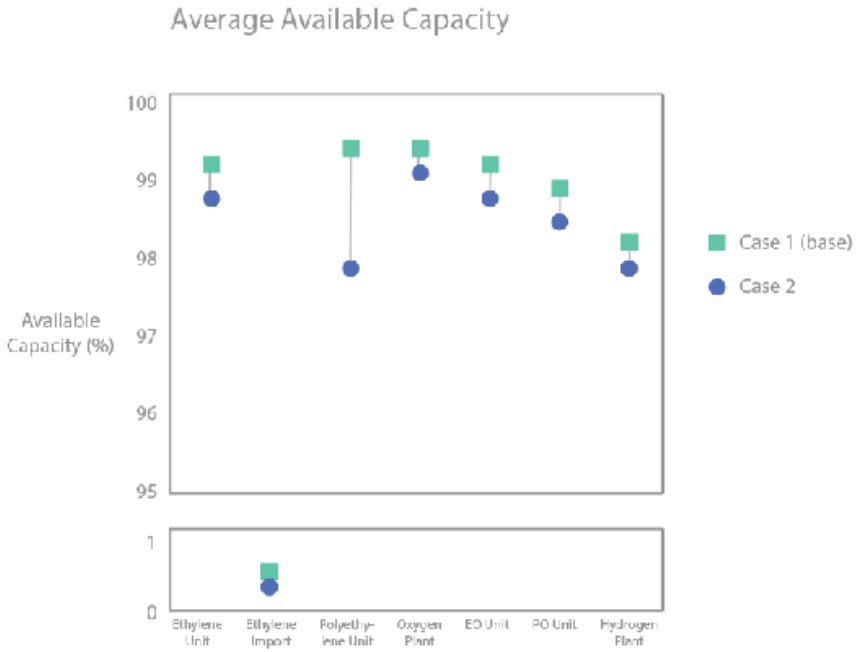
separate page for charts

Actuals | Deltas

	Facility Availability (%)	$/Year ($M)	Volumetric Production (units)
Base Case	95.5	N/A	N/A
Remove Capex	94.1		
Add Redundancy	95.7		
Add Buffer Volume	96.7		
Change Operating Procedures	96.1		
Reduce Non-Essential Maintenance	96.8		

show % increase in performance versus ROI comparison?





Hover over a dot to see it highlighted across units