

## **ENIGNEERING**

## Reliability

Reliability was proximity and amount of parallel. AY and SIL parallel D602F others don't.

DECISION: The following were scores for the reliability criteria in the expert judgment table:

URV 1, URQ 1, SGZ 1, AY 1.5 SIL 1.5

Cost - took average of all costs (using construction costs from the metrics, added acquisition, specialty mitigation, number of TLine crossings, house acquisition).

If actual within 5% of average than 1, if greater than 10% over, was a 2.

**DECISION**: The following were scores for the Cost criteria in the expert judgment table:

AY, SGZ, URQ, URV 1, SIL at 2.

Criteria	Weight	Routes					
		URV	SIL	AY	URQ	SGZ	
Cost*	40%	1	2	1	1	1	
Weighted	100	0.4	0.8	0.4	0.4	0.4	
System Reliability	10%	1	1.5	1.5	1	1	
Weighted	BEALS.	0.1	0.15	0.15	0.1	0.1	
Risk to Schedule	5%	1	1	2	1	2	
Weighted		0.05	0.05	0.1	0.05	0.1	
Environmental (Natural)	7.50%	1.2	2.2	3	1	2.7	
Weighted		0.09	0.165	0.225	0.075	0.2025	
Environment (Built)	7.50%	3	2.7	1	3	2	
Weighted	理由北	0.225	0.2025	0.075	0.225	0.15	
Community	30%	2	1	2	3	3	
Weighted		0.6	0.3	0.6	0.9	0.9	
TOTAL	(Parts	1.465	1.6675	1.55	1.75	1.8525	

Based on the inputs to the expert judgment model, URV is the preferred route.

Total = 709.8/5 = \$141.96 > average cost 14.96 ×1.05 = 149 - 15 lower gets a l

## **Meeting Notes**

## GENRAL DISCUSSION REVIEW and COMMENTS ON URV and the process:

Are there any other soft issues that should be considered?

If calculation for cost used, instead of a rank (as has been done previously), then:

AY 1.05 SGZ 1 SIL 1.14 URQ 1.03 URV 1.01 37.5 154.2 142.8 139.5 135.8

Criteria	Weight	Routes					
		URV	SIL	AY	URQ	SGZ	
Cost*	40%	1.01	1.14	1.05	1.03	1	
Weighted	1,400	0.404	0.456	0.42	0.412	0.4	
System Reliability	10%	1	1.5	1.5	1	1	
Weighted	B STATE	0.1	0.15	0.15	0.1	0.1	
Risk to Schedule	5%	1	1	2	1	2	
Weighted		0.05	0.05	0.1	0.05	0.1	
Environmental (Natural)	7.50%	1.2	2.2	3	1	2.7	
Weighted		0.09	0.165	0.225	0.075	0.2025	
Environment (Built)	7.50%	3	2.7	1	3	2	
Weighted		0.225	0.2025	0.075	0.225	0.15	
Community	30%	2	1	2	3	3	
Weighted		0.6	0.3	0.6	0.9	0.9	
TOTAL		1.469	1.3235	1.57	1.762	1.8525	

Then SIL becomes the winner.

BREAK TO REVIEW PREFERRED ROUTE