Project	Agency	Project Title
47-01	NET	Satellite Replacement Project

SUMMARY OF REQUEST (Executive Summary from the Proposal)

[Full text of all proposals are posted here: http://nitc.ne.gov/nitc/documents/fy2011-13/index.html]

NET's current satellite lease that supports the broadcast service interconnection between the NET origination center in Lincoln and the State-owned and licensed transmitters and translators will expire in January 2012. Per Legislative approval and appropriation, the NETC commissioned a study conducted by Skjei Telecom to analyze current NET television, radio and educational distribution requirements, to investigate available distribution methods (e.g. satellite, fiber optic, and microwave), and to recommend a distribution system for the years 2012 thru 2022.

Four alternative primary means of distributing the NET programming in the 2012 - 2022 timeframe were investigated:

- 1. Satellite Transmission (as at present)
- Fiber optic digital terrestrial distribution
 Microwave transmission
- 4. Hybrid Network Nebraska fiber plus "last mile" microwave

The lowest cost alternative meeting NET's requirements is the fiber optic alternative. Therefore, the Nebraska Educational Telecommunications Commission is making a capital request of \$3,912,100 over the State of Nebraska's next five biennium budgets to support ten years of interconnection requirements:

Item:	FY2012	FY2013	FY2014	Next 7 Yrs
Satellite Lease	\$218,000	\$523,200	\$523,200	0
Fiber Lease	0	0	\$148,200	\$2,074,800
Non-recurring capital costs	0	\$150,000	\$274,700	0
Total	\$218,000	\$673,200	\$946,100	\$2,074,800

This would save approximately \$404 K over the next best option over the 10 year life of the project.

FUNDING SUMMARY

	Total	Prior Exp	FY11 Appr/Reappr	FY12 Request	FY13 Request	Future Add Request
Capital Expenditur	res					
Hardware	\$0					
Software	\$0					
Network	\$0					
Other	\$3,912,100			218,000	673,200	3,020,900
Total	\$3,912,100	\$0	\$0	\$218,000	\$673,200	\$3,020,900
Total Request	\$3,912,100	\$0	\$0	\$218,000	\$673,200	\$3,020,900

PROJECT SCORE

Section	Reviewer 1	Reviewer 2	Reviewer 3	Mean	Maximum Possible
Goals, Objectives, and Projected Outcomes	15	13	12	13.3	15
Project Justification / Business Case	25	21	20	22.0	25
Technical Impact	20	11	18	16.3	20
Preliminary Plan for Implementation	9	8	9	8.7	10
Risk Assessment	10	8	8	8.7	10
Financial Analysis and Budget	20	15	18	17.7	20
			TOTAL	87	100

REVIEWER COMMENTS

Section	Strengths	Weaknesses
Goals, Objectives,	- Since the goals of the project are to continue	
and Projected	existing service the scope of the project is clear	
Outcomes	are the beneficiaries and deliverables The goal of this proposal is clearly stated. First,	
	they want to maximize efficiency of the television	
	and radio broadcast spectrum and second to take	
	full advantage of the network Nebraska	
	partnership. Is also clear that statewide broadcast	
	is a statutory requirement The project was clearly defined in the Skjei	
	Telecomm report with very specific goals and	
	objectives.	
Project Justification	- The proposal outlines alternatives and	- When they address the cost savings by
/ Business Case	recommends the most cost-effective and efficient	switching to fiber delivery. They say it "should"
	method to achieve project goals. Reduced cost points to the realization of efficiencies achieved by	result in reduced maintenance costs. I'm a little concerned with the term should.
	using Network Nebraska for the transport rather	concerned with the term should.
	than more costly alternatives. All taxpayers benefit	
	from the primary deliverable, television/radio	
	service, and lower costs ensure service without additional tax burden.	
	- It's good to see that NET wants to transform its	
	satellite delivery to more of a fiber delivery over	
	the next four years. But it is also good to see that	
	the lowest-cost alternative is the fiber optic one.	
Technical Impact	Costs were clearly identified The proposed solution, as noted previously,	- I think we will need to conduct a technical
T commod impact	conforms with NITC/OCIO network efforts. The	analysis of what this may or may not do to the
	proposal adequately considers cost-savings	existing Network Nebraska infrastructure. If there
	alongside risk and the impact to sites that will lose	is any degradation of service to existing
	access to services. The proposal includes	customers or if there is a need for additional bandwidth that will need to be addressed.
	training/professional development and a transition strategy.	bandwidth that will need to be addressed.
	- The technical issues appear to have been	
	thought out. The technical issues associated with	
	this change appear doable and the technical	
	capacity of the existing Network Nebraska infrastructure will be sufficient. NET indicates	
	they will meet all NITC technical standards.	
	- Technical impact is appropriate and points out	
	compatibility with the existing infrastructure of	
Dualinainan Dlan fan	Network Nebraska.	The consists assists as a cost and at
Preliminary Plan for Implementation	A clear timeline is provided along with recognition of the need for staff training. While the	The ongoing maintenance costs projected at 10% may be lower than expected as the current
Implementation	specific project team members aren't indicated, it	industry standard for such equipment is 18% -
	is clear that thought has been given to personnel	20% annually.
	that will participate and lead the project.	- The plan does seem very preliminary and I'm not
	They have a fairly good outline of the major milestones associated with this multiyear project.	sure everything has been addressed at this point - Staff is not identified by position - although that
	- The steps are well defined and supported by	may be intentional at this point. Training may be
	current business practices.	under estimated.
Risk Assessment	- An important consideration in assessing risk is	- I'm not sure if NET has identified all of the risks.
	clarity around service level expectations. NET has	I'm especially concerned if the fiber transition
	vast experience in the delivery of radio/television and knows well what resources are required to	does not take place, what's the fallback position?
	mitigate risk. The consideration of an "over the	
	air" repeater strategy for resilience demonstrates	
	an understanding of the risks endemic to the	
	proposed delivery method.	
	NET has identified some of the risks that may occur when the full transition to fiber takes place.	
	- Risk is acknowledged and appears to have a	
	mitigation plan.	

NEBRASKA INFORMATION TECHNOLOGY COMMISSION

Project Proposal - Summary Sheet Biennial Budget FY2011-2013 Project #47-01 Page 3 of 3

Section	Strengths	Weaknesses
Financial Analysis and Budget	 Cost of proposed delivery method as well as alternatives is clear. The selected transport offers the greatest cost avoidance while incurring acceptable risk. I do think there's a pretty good estimates, given the stage of the project. 	- Given the lack of specificity in the plan as it now exists, I don't think we can be sure that all of the potential costs have been identified.

TECHNICAL PANEL COMMENTS

Technical Panel Checklist				Technical Panel Comment
recillical Fallel Checklist	Yes	No	Unknown	recinical Panel Comment
1. The project is technically feasible?				
2. The proposed technology is appropriate for the project?				
The technical elements can be accomplished within the proposed timeframe and budget?				