## B-97 Battery Replacements, \$485,000

Q. Provide details to explain "this type of equipment has recorded significant
 numbers of failures in recent years." Please provide supporting
 documentation.

A. The Staticon chargers being replaced under this program are 20 years old. The table below shows the failures that have been experienced with these chargers in the past 10 years. As older units have been taken out of service, they have been used to provide spare parts for other units still in service; however, the supply of usable components is dwindling and new parts are sometimes not available. Recent problems such as shorted wiring point to age-related deterioration of components. Replacing these units now will ensure reliable power at a location which is remote and difficult to travel to for much of the year.

Date	Problem	Resolution
Feb 1996	Control board has one relay	Replaced with control board
	only.	with two relays for major/minor
		alarms.
Apr 1996	Charger 2 alarm	Adjusted float voltage and
		shared load between chargers.
Apr 1996	Float voltage potentiometer	Charger A control card replaced
	intermittent operation.	
Jun 1996	Current limit no working	Checked. No problem found.
	properly.	
Jun 1996	Charger A failure	Replaced control module.

## **PUB 125.0 NLH** NLH 2007 Capital Budget Page 2 of 2

Dec 1996	Charger turned off and failed	Control module replaced
	when turned on again.	
Jan 1997	Charger control board failed.	Had been repaired.
Mar 1997	Charger control board failed.	Control module replaced
May 1997	Charger A stayed on equalize	Control module replaced.
	voltage.	
Nov 1997	CEMF cell not dropping out	Shorted M1 contact to remove
	automatically after equalize	CEMF cell from circuit.
	charge has finished.	
Jan 1998	Relay failure	M1 relay replaced in charger.
Jan 1998	Equalize alarm not working.	Replaced burnt off wire with
		jumper.
Jan 1998	Intermittent Charger A alarm.	Control module replaced.
May 1998	Charger alarm	No problem found.
Feb 2000	Charger B meter not reading	Control board sent for repair.
	correctly	
Jun 2002	Intermittent charger B alarm	Adjusted chargers A & B to
		share load.
Jul 2003	Charger would no go to	Fixed shorted wire.
	equalize voltage	
Jun 2004	Lo/High volt alarm control fuse	Shorted wiring removed.
	blown	
Jun 2005	CEMF cell is IN with charger	Adjusted float voltage. CEMF
	at float voltage.	cell no longer comes on in float.