



Interoffice Memorandum

Hail

HUGHES STX
CORPORATION

DATE: 7/15/97

TO: Ron Parsons

FROM: Darrell Trump

SUBJECT: Status of Satellite Dishes -- Initial Damage Assessment

AVHRR (three meter articulating dish on roof);

Damage: End cover knocked or blown off of feed and damaged beyond re LNA to be exposed to elements. Aluminum reflector severely d

Actions to date: Feed arm assembly replaced with spare. Damaged feed being r manufacturer for repair.

Action remaining: Replace reflector or install higher gain LNA to increase sig

Production Impact: Some data degradation prior to feed replacement.

Risk: Although reflector damage is not sufficient to impact fair w signal is reduced and could be problematic in inclement weat

Cost estimates: LNA would cost ~\$500. Reflector would cost \$25-\$40k includi installation and re-boresighting.

DOMSAT (eight meter fixed dish on front lawn);

Damage: Teflon cover ripped, water in feed horn.

Actions to date: Ripped cover removed, feed horn towel dried and left to air

Action remaining: Replace reflector or install higher gain LNA to increase sig install a custom built (temporary) mylar cover today.

Production Impact No data loss. Pass during hailstorm received.

Risk: Although reflector damage is not sufficient to impact fair w signal is reduced and could be problematic in inclement weat has never been used for up-link, it is equipped to do so. T now prevent this use. A higher gain LNA would not restore t capabilities.

Cost estimates: Reflector would be about \$50k, installed by manufacturer.

L7 (ten meter articulating dish behind building);

Damage: Reflector damaged beyond repair according to Datron. Dichro also destroyed. S-band transmit elliptical waveguide destro knocked off.

Actions to date: Datron staff on site assessing damage and proposing resoluti

Action remaining: Unknown - but replacement of all damaged components likely.

Production Impact: Not in production, but will delay installation and testing a impact production.

Risk: Delay in L7 equipment testing may negatively impact schedule complication may be that replacement parts may not be delive until winter.

Cost estimates: No cost to EDC since Datron responsible until equipment acce completed. Preliminary estimates are as high as \$500k.

Additional information will be forthcoming as we complete our assessment and e as EDC vendors provide repair time frames.