

SMA Memo 120
P/N 41700490000



Simpson Gumpertz & Heger Inc.
Consulting Engineers

Arlington, MA / San Francisco, CA

T R A N S M I T T A L

Date: 17 March 1998 **Comm.** 96755

To: Smithsonian Astrophysical Observatory
60 Garden Street
Cambridge, Massachusetts 02138

Attention: Mr. George Nystrom

Client: Smithsonian Astrophysical Observatory

Subject: CFRP Type -5 for SMA Antenna

Enclosed are the following:

2 copies of binders containing the following:

- Table of results of testing of type -5 tubes with comments.
- 5 photographs showing the failed specimens - tube end and corresponding insert.
- 14 photographs showing close up of inserts.
- 20 photographs through a microscope of surfaces of inserts

Note: All of the above, except for the microscope photographs, were previously forwarded to you.

___ Per your request
X For your information/records
___ For your approval/comments
___ For your review/comments

___ Approved
___ Approved as noted
___ Revise and resubmit
___ Returning to you

___ For correction
___ Not approved
___ Resubmit for record copy
___ Please return

By: Joseph Antebi

JA01-98.amg

[illegible]

Comm 96755 CFRP - Testing of bonded joints for SMA Antenna			
JJW			
6/18/97			
	Interior of Pipe		
Specimen	circular rings interrupted by:	HOLIDAYS	
05-02	longitudinal fibers 25% of total area		
		Large Holiday (10%)	
05-03	Holiday		
		Holiday (5%)	
05-04	longitudinal fibers 33% of total area		
		Holiday (5%)	
05-05	Not interrupted		
	Pinkish tint on pipe tension surface	No Holiday	
05-07	longitudinal fibers - 50% of total area		
		Holiday (20%)	
05-09	longitudinal fibers 40% of total area		
		Small Holiday (Less than 5%)	
05-13	longitudinal fibers 20% of total area		
		No Holiday	
05-14	longitudinal fibers 50% of total area		
		Holiday (5%)	
05-15	faintly by longitudinal		
	Finger-like Holiday (2 0 %)		
05-16	Circular rings not distinct, nor crisp:		
		Small Holiday (Less than 5%)	
05-18	large section of longitudinal fibers		
		Small Holiday (Less than 5%)	
05-20	longitudinal fibers 40% of total area		
		No Holiday	
05-22	longitudinal fibers 45% of total area		
05-23	longitudinal fibers 25% of total area		
		Small Holiday (Less than 5%)	