

PROJECT ADMINISTRATION DATA SHEET



ORIGINAL



REVISION NO. _____

Project No. A-3933

GTRI/GIT

DATE 8 / 31 / 84Project Director: C. RuckerSchool/Tab XXX/4 EMLSponsor: Boeing AerospaceP.O. Box 3999 Seattle, WA 98124-2499Type Agreement: Research Project AgreementAward Period: From 8/9/84 To 10/8/84 (Performance) 10/31/84 (Reports)

Sponsor Amount:

This ChangeTotal to Date

Estimated: \$

\$ 1,974

Funded: \$

\$ 1,974

Cost Sharing Amount: \$

Cost Sharing No: _____

Title: Metallization Services

ADMINISTRATIVE DATA

OCA Contact

Ralph Grede X4820

1) Sponsor Technical Contact:

2) Sponsor Admin/Contractual Matters:

Boeing AerospaceBoeing AerospaceBox 3999Box 3999Seattle, WA 98124-2499Seattle, WA 98214-2499Defense Priority Rating: n/aMilitary Security Classification: n/a(or) Company/Industrial Proprietary: n/a

RESTRICTIONS

See Attached _____ Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval - Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of \$500 or 125% of approved proposal budget category.

Equipment: Title vests with No equipment proposed.

COMMENTS:

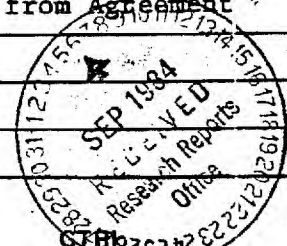
Current indirect rates used in financial determinations as date of instrument is in current rate period. Current indirect rates may differ from Agreement stated rates.

COPIES TO:

Project Director
Research Administrative Network
Research Property Management
Accounting

Procurement/EES Supply Services
Research Security Services
Reports Coordinator (OCA)
Research Communications (2)

Library
Project File
Other I. Newton



SPONSORED PROJECT TERMINATION/CLOSEOUT SHEETDate 3/14/85Project No. A-3933~~XXXXX~~ Lab EMLIncludes Subproject No.(s) N/AProject Director(s) C.T. RuckerGTRC / ~~X~~Sponsor Boeing AerospaceTitle Metallization ServicesEffective Completion Date: 10/8/84(Performance) 10/31/84

(Reports)

Grant/Contract Closeout Actions Remaining:

☐

None

☒

Final Invoice or Final Fiscal Report

☐

Closing Documents

☐

Final Report of Inventions

☐

Govt. Property Inventory & Related Certificate

☐

Classified Material Certificate

☐

Other _____

Continues Project No. _____

Continued by Project No. _____

COPIES TO:

Project Director
Research Administrative Network
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Jones

Georgia Institute of Technology
ENGINEERING EXPERIMENT STATION
Atlanta, Georgia 30332

September 11, 1984

Boeing Aerospace Company
Box 3999
Seattle, Washington 98124-2499
Attn: Fred Burkett
Re: P.O. GEO 396

Dear Mr. Burkett:

I have completed metallization on two ZnSe substrates. Several experiments were conducted, in order to provide metallized substrate samples having good adherent metal layers.

Substrate sample number one has been surface etched utilizing a sulfuric, chromic acid etch which roughened the surface somewhat. The ZnSe substrate was then RF sputter coated with titanium and platinum followed by electroplated platinum. The plated platinum was then overcoated with a second layer of RF sputtered titanium. This top layer of titanium should aid the adhesion of the subsequent CVD dielectric overcoat.

Substrate sample number two was treated in a different manner. The substrate ZnSe was lightly surface etched in a ammonium hydroxide, hydrogen peroxide etch. The metal layers were deposited in a similar manner except that the ZnSe substrate was heated to 350°C during the RF sputter process. I am hoping that one or both of these methods of deposition will work. If not, we may be able to try some other methods. Please call me at (404) 894-3420 if any problems are encountered concerning the metal films.

Sincerely,

Gerald N. Hill
Project Director

GNH:bj

SHIPPING DOCUMENT

Georgia Institute of Technology
Engineering Experiment Station

Atlanta, Georgia 30332

Invoice No. _____

Date 9-11-84

Ship To:

Fred Burkett
Boeing Aerospace
Kent Space Center Bldg. 1821
Loc. 13K3
Seattle, Washington 98124-2499

Related Purchase No. P.O. GE0396

Related Project No. A-3933

Related Contract No. _____

Declared Valuation _____

Shipping Instructions/Reference:

Item No.	Quantity	Description	Ser./Mfg. No.	Property No.	Unit Price	Total Cost
1	1	Metallized ZnSe Substrate Sample No. 1				
2	1	Metallized ZnSe Substrate Sample No. 2				

acked by _____ Date Shipped _____
eight _____ Cube _____
ame of Carrier Federal Express
aybill No. _____ Charges _____

SHIPMENT AUTHORIZATION BY:

G. N. Hill

Project Director

Title

Georgia Institute of Technology
ENGINEERING EXPERIMENT STATION
Atlanta, Georgia 30332

October 1, 1984

Boeing Aerospace Company
Box 3999
Seattle, Wa. 90124-2499
Attn: Fred Burkett
Re: P. O. 396

Dear Mr. Burkett:

In accordance with our recent telephone conversation concerning early completion of the project, I will close out the research agreement on your P.O. GE0396.

In order to satisfy the terms of the agreement this letter will encompass deliverable item seven and our GTRI monthly status letters two and three.

I am looking forward to the next phase of the program. Good luck.

Sincerely,

Gerald N. Hill

GNH:bj