Date: March 24, 1980

Project Title: Specialized Research Equipment: Automated Radiation Laboratory

Project No: E-21-610

Project Director: Dr. G. K. Huddleston

Sponsor: National Science Foundation

Agreement Period: From February 15, 1980 Until July 31, 1981 (Grant Period)

Type Agreement: Grant No. ECS-7923613, dated 3/10/80

Amount: $35,000 NSF (E-21-610)

16,753 GIT (E-21-351) Cost sharing

$86,753 TOTAL

Reports Required: Final Project Report

Sponsor Contact Person(s):

Technical Matters

C. Paul Christensen
Program Director for Quantum, Electronics, Waves and Beams
Division of Electrical Computer and Systems Engineering
Directorate for Engineering and Applied Science
National Science Foundation
Washington, D. C. 20550
(202) 632-5881

Contractual Matters (thru OCA)

Hugh L. Lyon
AAEO/EAS Branch, Section II
Division of Grants and Contracts
Directorate for Administration
National Science Foundation
Washington, D. C. 20550
(202) 632-5860

Defense Priority Rating: N/A

Assigned to: Electrical Engineering

School: Laboratory

COPIES TO:

Project Director
Division Chief (EES)
School/Laboratory Director
Dean/Director—EES
Accounting Office
Procurement Office
Security Coordinator (OCA)

Library, Technical Reports Section
EES Information Office
EES Reports & Procedures
Project File (OCA)
Project Code (GTRI)
Other C. E. Smith

CA-3 (3/76)
SPONSORED PROJECT TERMINATION SHEET

Date 4/2/82

Project Title: Specialized Research Equipment: Automated Radiation Laboratory

Project No: E-21-610

Project Director: Dr. G. K. Huddleston

Sponsor: National Science Foundation

Effective Termination Date: 7/31/81

Clearance of Accounting Charges: 7/31/81

Grant/Contract Closeout Actions Remaining:

☐ Final Invoice and Closing Documents
☒ Final Fiscal Report Accounting (FCTR)
☒ Final Report of Inventions
☐ Govt. Property Inventory & Related Certificate
☐ Classified Material Certificate
☐ Other

Assigned to: Electrical Engineering (School/Laboratory)

COPIES TO: Research Administrative Network

Administrative Coordinator
Research Property Management
Accounting
Procurement/EES Supply Services

Research Security Services
Reports Coordinator (OCA)
Legal Services (OCA)
Library

EES Public Relations (2)
Computer Input
Project File
Other

FORM OCA 10-781
National Science Foundation
Division of Grants and Contracts
Post-Award Projects Branch
1800 G Street, N. W.
Washington, D. C. 20550

Ref: NSF Award Number ECS-7923613, Specialized Research Equipment

Dear Sirs:

The Final Project Report is forwarded in conformance with the grant specifications.

Should you have any questions or comments regarding this report, please feel free to contact me at (404) 894-2961.

Sincerely,

Marsha Segraves
Admin. Asst.

cc: OCA (2)
    Dr. G. K. Huddleston
    file

/ms
PART II—SUMMARY OF COMPLETED PROJECT (FOR PUBLIC USE)

Specialized research equipment has been obtained to establish an Automated Radiation Laboratory in the School of Electrical Engineering at Georgia Institute of Technology. The facility provides the capabilities to automatically acquire, store, and process voluminous electromagnetic field measurement data in the 8.2 - 12.4 GHz frequency band as received by a probe antenna accurately positioned on a spherical measurement surface enclosing the antenna under test. The positioner, amplitude/phase receiver, phase-locked microwave source, and microcomputer equipment cost $90,488, including waveguide components and interfacing electronics. The equipment is housed in a control room and adjacent anechoic chamber measuring 29' x 47' x 11' high and lined with 5-inch (50 dB) pyramidal absorber material costing a total of $36,400, including renovations. The facility is being readied for use on a number of faculty and student research programs involving near-field/far-field transformations, electromagnetic interference, and scattering. Matching funds were provided by Georgia Tech Research Institute.
PATENT AGREEMENT

I, the undersigned, an employee of the GEORGIA INSTITUTE OF TECHNOLOGY, as a condition of my assignment to work on Research Project No. E-21-610 under a Grant agreement (Grant No. ECS-7923613) between the Georgia Tech Research Institute and the National Science Foundation (NSF), hereby agree to the following conditions as to patent rights:

PATENT RIGHTS - Whenever any invention, improvement, or discovery (whether or not patentable) is made or conceived or first time actually or constructively reduced to practice in the course of, in connection with, or under the terms of said project, I shall immediately give NSF written notice thereof, and shall thereafter furnish NSF with complete information thereon; and NSF shall have the sole and exclusive power to determine the disposition of all rights in such invention, improvement, or discovery, including title to and rights under any patent application or patent that may issue thereon. The determination of NSF on all these matters shall be accepted as final; and I agree that I will execute all documents and do all things necessary or proper to the effectuation of such determination.

Gene K. Huddleston  
(Typed Name)

(Signature)

WITNESS:

March 23, 1982  
(IHITC)