

BEFORE THE CONTRACT REVIEW BOARD
METROPOLITAN SERVICE DISTRICT

FOR THE PURPOSE OF AUTHORIZING A) RESOLUTION NO. 91-1404
SOLE SOURCE CONTRACT UNDER METRO)
CODE 2.04.060) Introduced by David Knowles,
) Chair, Joint Policy Advisory
) Committee on Transportation

WHEREAS, Metro needs a specific logit estimation package for better light rail and park-and-ride model development; and

WHEREAS, The Metro Council in Ordinance No. 90-374 amended the Transportation Department's FY 90-91 budget to allow for computer acquisitions including this acquisition of software; and

WHEREAS, ALOGIT is the only software discovered in a search by the department that satisfies the requirements without extensive customizing or modification; and

WHEREAS, the Hague Consulting Group is the only provider of this software and the contract exceeds \$2,500; and

WHEREAS, Metro Code Section 2.04.060 requires Council approval of sole source agreements; now, therefore,

BE IT RESOLVED,

That the ALOGIT purchase through the Hague Consulting Group (or a U.S. designee) is authorized as a sole source agreement pursuant to Metro Code Section 2.04.060.

ADOPTED by the Contract Review Board of the Metropolitan Service District this 14th day of March, 1991.


Tanya Collier, Presiding Officer

TRANSPORTATION and PLANNING COMMITTEE REPORT

RESOLUTION NO. 91-1404,
AUTHORIZING a SOLE SOURCE CONTRACT
under METRO CODE 2.04.060

Date: February 27, 1991 Presented by: Councilor Van Bergen

COMMITTEE RECOMMENDATION

At its February 26, 1991 meeting, the Transportation and Planning Committee voted unanimously (Bauer, Devlin, Gardner, McLain, and Van Bergen) to recommend the Contract Review Board adopt Resolution No. 91-1404, exempting Transportation's purchase of ALOGIT software from public bidding or applicable alternative procurement procedure as a sole source agreement pursuant to Metro Code Section 2.04.060.

The Committee found that

- o ALOGIT is the software the Transportation Department needs,
- o the Hague Consulting Group is the only qualified provider of ALOGIT software, and
- o the contract (6,000 Dutch Guilders plus 1,000 Guilders to instal, equivalent to \$3,500 - \$4,500) exceeds \$2,500.

BACKGROUND

Code Section 2.04.060 requires the initiating department to document that there is only one qualified provider of the service required, and that a sole source contract may not exceed \$2,500 unless the Contract Review Board exempts the contract from the public bidding or applicable alternative procurement procedure.

In Ordinance No. 90-374, Council amended Transportation's FY 90-91 budget to allow for computer and software acquisitions.

COMMITTEE DISCUSSION/ISSUES

The Committee wanted to understand what this software does and why Transportation needs it. The terminology in the staff report confused and amused Committee members.

Transportation explained that the software would enable them to use smaller samples to make projections which take into account many variables. This is much less costly than doing surveys and working with large samples. The software is specific to transportation, is used in Europe, and comes recommended by qualified sources. Transportation will use the software to predict patterns of rail and bus ridership inter-related with how riders reach transit, where they have come from, and where they are going.

STAFF REPORT

FOR THE PURPOSE OF AUTHORIZING A SOLE SOURCE CONTRACT UNDER
METRO CODE 2.04.060

Date: February 7, 1991

Presented by: T. Keith Lawton

FACTUAL BACKGROUND AND ANALYSIS

Ordinance No. 90-374 adopted by the Metro Council (December 13, 1990) included replacement of the MASSCOMP and software acquisition.

One piece of software envisaged at that time was an advanced multinomial logit estimator with attributes allowing the use of both scaled and unscaled variables and an easy implementation of nested logit estimation. This type of software is very transportation specific and can be developed using user programming in the SAS or Gauss packages, or it could be custom built (with time and cost implications) in the Systat package. A search for an existing implementation of this software was carried out by querying other organizations familiar with sophisticated destination/mode choice model development; we contacted other MPOs and the consulting firms Cambridge Systematics and transek ab (Stockholm). For the kind of models we are attempting to develop (rail-specific, bus-specific, with mode of arrival estimation), both consultants suggested ALOGIT, a program developed in the Netherlands by the Hague Consulting Group. Documentation of the package reveals that it will satisfy our requirements.

We have contacted the Hague Consulting Group and have been quoted a price of 6,000 Dutch Guilders plus 1,000 Dutch Guilders to port to our SUN system. This translates to approximately \$3,500 (@ 50¢/Guilder). This price is very reasonable and certainly much lower than the cost of programming using existing software and much quicker than getting custom programming (the RFP process, contract letting, etc., would take three to six months without the time to carry out the contract -- this RFP process alone typically costs more than \$3,500 in salary, fringe and overhead!). We have been unable to find a comparable package and request permission to sole source this acquisition.

EXECUTIVE OFFICER'S RECOMMENDATION

The Executive Officer recommends approval of Resolution No. 91-1404.

Cambridge Systematics, Inc.
222 Third Street
Cambridge, Massachusetts 02142
(617) 354-0167
Fax (617) 354-1542

Notice of Fax Transmission

Fax number: 503 241-7417
To: Kieth Lawton
Company: _____
From: Terry Atherton
Date: 12/5/90
Project No.: ~~0904~~ 09041.05
Number of pages including cover: 15

Terry Atherton

If there are any problems with this transmission, please call us at 617-354-0167

Re: _____

Kieth -

Attached is a description of
ALOGIT. As I mentioned,
there are two versions:

Standard MVL @ 2000 Dutch Smiles
Keated MVL @ 6000 " "

I'll let you know when I hear
from Andrew re: availability
for UNIX / Sun

- Terry

Cambridge Systematics, Inc.
222 Third Street
Cambridge, Massachusetts 02142
(617)354-0167
Fax (617) 354-1542

1-17
10:30

Notice of Fax Transmission

Fax number: 503 241-7417

To: Keith Lawton

Company: _____

From: Terry Atherton

Date: 1/15/91

Project No.: 09141.05

Number of pages including cover: 1

If there are any problems with this transmission, please call us at 617-354-0167

Re: Keith -

Andrew Aaby can provide a SUN version of ALOGIT, at an additional cost of 1,000 Dutch guilders.

If you would like to proceed, we would need specific ~~detail~~ details of the hardware, and operating system (Unix version number, etc.)

Regards,

Terry

1. INTRODUCTION

This document gives an overview of the ALOGIT suite of computer programs. These programs are designed for the analysis of statistical models of the "logit" form, which are widely applied for analysis and forecasting of qualitative response in many analytical fields, particularly in transportation planning.

ALOGIT is a professional tool, containing many sophisticated features that can handle advanced model forms. Yet it is designed so that these features are largely invisible from the user who does not need them: simple models can be set up, estimated and applied very quickly and with few complications.

The following Chapter defines the logit model and gives an overview of the way in which the programs may be used to define, estimate and study a model. The second Chapter describes briefly some of the detailed features of the programs. An appendix gives more technical details outlining the methodology used by the programs, both for straightforward logit analysis and to handle two useful extensions made to the form of the model, and also gives details of how program facilities may be used to deal with particular types of data.

This document is designed to be read in conjunction with the ALOGIT User's Manual, which gives full details of the application of the programs themselves.