DEPARTMENT OF THE NAVY
BUREAU OF SHIPS
WASHINGTON 25, D. C.

IN REPLY REFER TO
Ser 732 COD-7
29 December 1959

JAN 4 1960

Mr. Burt Grad
General Electric Company
Room 2409
517 Lexington Avenue
New York, New York

Dear Mr. Grad:

    Charlie Katz, who is a member of the Intermediate Range Task Force, Committee on Data Systems Languages, has told me about your advanced programming system, ''Structure Table''. Roy Goldfinger has indicated he will discuss this with you by phone. I would like to have you make a presentation on this system at our next meeting in Los Angeles, 22 January 1960. We can allow about an hour for this item on the agenda. Possibly you could talk for 30 or 40 minutes and leave the rest of the time for a discussion. I believe Roy mentioned that you might be able to send copies of the write up on ''Structure Table'' to the members before the meeting. I am sending a list of the membership in case you can do this. Please let me know as soon as possible whether or not you will be able to be with us in Los Angeles. Thank you.

        Sincerely yours,

        ALBERT E. SMITH

AES/lkf

OF THE INTERMEDIATE RANGE TASK FORCE

OF THE COMMITTEE FOR DATA SYSTEMS LANGUAGES

Mr. Donald Bradley
Chesapeake and Ohio Railway
400 Terminal Tower
Cleveland 1, Ohio

Mr. Robert Bozak
Systems Development Corporation
2500 Colorado
Santa Monica, California

Mr. Carl L. Byham
Assistant to Comptroller
Southern Railway Company
Accounting Department
Washington 13, D. C.

Mr. Les Calkins
United States Steel Corporation
525 William Penn Place Building
Pittsburgh 30, Pennsylvania

Mr. B. F. Cheydleur
Radio Corporation of America
Industrial Electronic Products
Camden 2, New Jersey

Dr. Richard F. Clippinger
Datamatic Division
Minneapolis-Honeywell Regulator Company
151 Needham Street
Newton Highlands 61, Massachusetts

Mr. Gregory Dillon
Assistant Manager Methods
Treasury Department
DuPont Corporation
Wilmington 98, Delaware

Lt. William Fell
U. S. Army Signal Engineering Agency
Arlington Hall Station
Arlington, Virginia

Mr. Walter Frese
Graduate School of Business
    Administration
Harvard Business School
Boston 63, Massachusetts

Mr. Kenneth A. Foster
Sylvania Electric Products Inc.
5700 West Genessee Street
Camillus, New York

Mr. Roy Goldfinger
International Business Machine Corp.
112 East Post Road
White Plains, New York

Dr. A. D. Hestenes
General Motors
8-102 General Motors Building
Detroit 2, Michigan

Mr. Donald B. Houghten
The Franklin Institute
20th and the Parkway
Philadelphia 3, Pennsylvania

Mrs. Renee Jasper
Navy Management Office
Room 0135 Main Navy Building
Washington 25, D. C.

Mr. John L. Jones
Data Systems Plans Division
Headquarters, Air Material Command
Wright-Patterson Air Force Base
Dayton, Ohio

Mr. Charles Katz
Computer Department
Black Canyon Plant
General Electric
13430 North Black Canyon Highway
Phoenix, Arizonia

Members

Mr. William Keating
National Cash Register Company
Dayton, Ohio

Mr. George M. Perry
Data Processing Department
Travelers Insurance Company
700 Main Street
Hartford 15, Connecticut

Mr. H. E. Robinson
Data Systems Plans Division
Headquarters, Air Material Command
Wright-Patterson Air Force Base
Dayton, Ohio

Mr. Robert Rossheim
Remington Rand UNIVAC
1900 W. Allegany Avenue
Box 51616
Philadelphia 29, Pennsylvania

Mr. John R. Smith
Operations Central Department
Aeroneutronic
Ford Road
Newport Beach, California

Mr. Jack Strong
Integrated Data Processing
North American Aviation, Inc.
International Airport
Los Angeles 45, California

Mr. Dick Utman
Ramo-Woolridge
P. O. Box 267
Sierra Vista, Arizonia

Schenectady, December 23, 1959

To: SHARE Executive Board
From: H. N. Cantrell - GS

Subject: Possible Agenda Items for the February SHARE Meeting

GS has two contributions which we would like to present at the next SHARE meeting if they can be fitted into the agenda. These are:

1. Discussion of the use of structure tables or a tabular language for expressing computer programs. Structure tables were first used for programming in G. E. by our Manufacturing Services people on the 702. We expect that they have been used in this way by a few people outside of G. E. but we have never heard them discussed at a SHARE meeting. We have tried to develop their use in GS and have written and used a structure table to SAP compiler which we will send to SDA soon. Structure tables essentially replace detailed flow charts as a definition of the problem. They are easier to compose than flow charts and can be executed directly without further coding. This appears to be a development of major importance in the programming field. It should be worth discussing at a SHARE meeting. We would like to present our ideas and find out what other people have done in this area. Jane King - GS would present our part of the story.

2. We have recently designed and written a business language compiler for the 704. This was designed to be used by our own people in programming business problems for our 704. It was designed to be as good a language as possible with the restriction that the compilers had to be written, debugged and running in one man year (actually three girls for four months). This schedule was met and the system is now compiling actual programs.

   Recently we had an opportunity to study the Honeywell business language and the proposed COBOL language. We were somewhat surprised to find that our language, although it is a lot simpler, is not particularly inferior to either of these. Its processing statements are similar to FORTRAN which we think is a lot easier to write than the pseudo-English used in COBOL and the Honeywell language. We think that the contribution here is that it is possible to design a good simple business language which can be implemented in one man year. Our language is an example of what can be done here. We didn't write it with the expectation that it would be used by anyone else, but we will try and get it documented and submit it to SHARE. A discussion of this language would be given by Betty Gurka and Jane King both of GS.

I hope that you will be able to find a place in the agenda for these two discussions.

H. N. CANTRELL,   *Harry N. Cantrell*
                       MANAGER - COMPUTATIONAL RESEARCH
                       LARGE STEAM TURBINE-GENERATOR DEPARTMENT
                       BLDG. 273/59-244 Tel. FR 4-2211, ext. 5-3453

HNC:wlh

file

December 21, 1960   cc: H. F. Dickie

Mr. C. W. Bryant, Manager
Materials Service
OFFICE

As discussed in your office this morning, we are requesting permission
to release appropriate material describing the TABSOL concept. This would
pertain specifically to the use of Decision Structure Tables as a tabular systems-
oriented language.

Specifically, we should like to request that the following steps be taken:

1.   Intermediate range task force, CODASYL committee --

        A presentation should be made to the appropriate
        sub-committees and full committee of the TABSOL
        material in an effort to influence their planning for
        standardization of automatic business languages. It
        is suggested that this presentation be made by Tom
        Kavanagh at the meeting to be held January 19-22.

        To maximize the impact of this presentation, it would
        be desirable to release advance copies for personal use
        to members of the committee and other influential experts
        in this field. These copies should probably be distributed
        within the next week.

2.   AIEE

        Burt Grad has a paper scheduled for the January 30-
        February 2 meeting of the AIEE. This paper was intended
        to discuss in greater detail some of the previously released
        material on the Integrated Systems Project. It is now felt
        that it would be useful to mention as part of that speech the
        basic idea of TABSOL and to illustrate its use through a
        simple structure table. Advantages of this TABSOL approach
        would also be given.

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        basic idea of TABSOL and to illustrate its use through a
        simple structure table. Advantages of this TABSOL approach
        would also be given.

3.   Association for Computing Machinery Communications

It is proposed that a professional, non-refereed article
be submitted to the Association for Computing Machinery
monthly magazine. This joint article would describe the
TABSOL-702 program. We would hope this material
could be published by February or March.

4.   Western Joint Computer Conference

It is suggested that we try to arrange for Tom Kavanagh
to give a professional paper at this WJCC meeting to be
held in early May, 1960. The subject matter of the paper
would be Decision Structure Tables -- a user oriented
language. It is also likely that Mr. Cantrell would give
a paper at this same meeting on the 704 LOGTAB. It is
also expected that Mr. Evans (Hunt Foods) will present
his material at this meeting.

5.   AIIE

It is further proposed that a presentation be made by
Burt Grad at the annual meeting of the AIIE to be held
in late May 1960. The subject matter of this presenta-
tion would be the Integrated Systems Project's use of the
TABSOL concept. It is also hoped that presentations might
be given by Mr. Nidenberg and Mr. May concerning the
application of the TABSOL concept to Manufacturing Engi-
neering problems.

6.   In addition to these immediate areas, further analysis will be
required to determine the course of action in regards to general
publications (Business Week, Wall Street Journal), trade publica-
tions (Datamation, Control Engineering) and professional journals

(Management Science, Journal of Operations Research Society
of America). In addition, plans will be made with each of the
participants in the Integrated Systems Project and the various
other users of the TABSOL material to insure that they achieve
appropriate professional recognition for their contributions.

Burton Grad, Technical Counselor   T. F. Kavanagh, Specialist
Production Control Service   Production Control Service
Office   Office

pd

AERONUTRONIC

A DIVISION OF

Ford Motor Company

COMPUTER OPERATIONS   December 21, 1959   FORD ROAD / NEWPORT BEACH, CALIFORNIA

ORIOLE 3-2520

AIR MAIL SPECIAL DELIVERY

Burt -
Shouldn's you
talk to Roger + Dick

Mr. Burton Grad
General Electric Company
Production Control Services
570 Lexington Avenue
New York, New York

Dear Burt:

    Enclosed herewith second copies of the Hunt Foods and Industries material you had requested. Apparently the first set (which we sent Airmail Special Delivery) was short-circuited someplace in Phoenix. I trust you will receive these in time for your purposes.

    Per your telecon with Roger, I will arrange for invitations to Joe Weisenbaum and Tom Kavanaugh for the Western CODASYL meetings of January 8 and January 19-21, respectively. We are looking forward to receiving your manuals and hearing the experiences and advice of your people.

                Yours very truly,

                John Smith

                John Smith

JS:ms
attch.

HFI

HUNT FOODS AND INDUSTRIES, INC.

1747 West Commonwealth Avenue, Fullerton, California, Trojan 1-2100

December 21, 1959

VIA AIR MAIL

Mr. Burton Grad
General Electric Company
570 Lexington Avenue
New York 22, New York

Dear Mr. Grad:

I enjoyed talking with you last week. Since this is an initial draft
of a paper, I have not made many copies. I have managed to obtain one
for you though.

We are making several slight revisions in the forms. The appendix
instructions will be revised extensively in the final draft.

It is very gratifying to know someone else is working along these lines
and have already proven the value of the technique. Your support at
the next CODASYL meeting should lend a heavy emphasis toward the national
data processing language.

There is one point of our approach at Hunt Foods I would like to make.
The use of the data rules is the most important single factor but it is
supported with the elements, sets, files, process flow charts, systems
flow chart and many cross-reference listings. They all contribute to a
total package.

I am looking forward to examining your material and to meeting you
personally.

Sincerely yours,

Orren Y. Evans
Manager
Electronic Data Processing
HUNT FOODS AND INDUSTRIES, INC.

OYE:DJR

Enclosure

CONDITIONS

RULE NUMBER (CURRENT / PRIOR)	WEEKLY FREQUENCY	IS THE CUSTOMER BILL-TO NAME (150) PRESENT?	IS THE CUSTOMER BILL-TO ADDRESS (069) PRESENT?	IS THE CUSTOMER SHIP-TO NAME (072) PRESENT?	IS THE CUSTOMER SHIP-TO ADDRESS (071) PRESENT?	MAKE NOTE OF ERROR OR QUESTION (E??)
001	2500	Y	Y	Y	Y	
002	10	N				Y
003	5		N			Y
004	8			N		Y
005	6				N	Y

		IS THE BROKER NAME PRESENT? (051)	IS THE BROKER CODE PRESENT? (050)	DOES THE BROKER NAME (051) AND CODE (050) AGREE WITH BROKER NAME AND CODE FILE (#1)?	
006	2500	Y	Y	Y	
007	22	Y	Y	N	Y
008	3	Y	N		
009	3	N	Y		
010	1	N	N		Y

		IS TERM CODE (125) PRESENT?	DOES TERM CODE (125) INDICATE A T.A. OR DRAFT?	IS THE BANK NAME (977) PRESENT?	
011	2000	Y	N	N	
012	400	Y	Y	Y	
013	10	Y	N	Y	Y
014	19	Y	Y	N	Y
015	60	N		N	Y
016	40	N		Y	Y

		ARE THERE ANY NOTES (#99) OF ERRORS OR QUESTIONS?			RETURN ORDER TO SALES (G..)
017 (001 THRU 016)	2372	N			
018 (001 THRU 016)	157	Y			Y

CONDITIONS

RULE NUMBER CURRENT	PRIOR	WEEKLY FREQUENCY	RECEIVED DOCUMENTS FROM PROCESS AREA 0220.1	IS W/S WGHT TOTAL ORIG VALID (360)	IS W/S WGHT TOTAL ORIG ADJ SAME AS ABOVE (360)	IS W/S WGHT TOTAL ADT PRESENT (360)	CAR DISPOSITION (430) SINGLE	LEAD	TRAILER	IS THIS REEFER CAR (479)	W/S WEIGHT TOTAL ORIGINAL (156) ≥6,000 LBS	≥60,000	≥70,000	≥75,000	≥80,000	WGHT APPROVED	WORK SHEET WGHT TOTAL ADJUSTED (156) ≥6,000 LBS	≥60,000	≥70,000	≥75,000	≥80,000	WGHT APPROVED
001	-	005	Y	Y																		Y
002	001	004	Y	Y	N																	
003	002	250	Y	N																		
004	003	002	Y	Y		N	Y						N			N						
005	003	002	Y	Y		N	Y			Y			Y			N						
006	003	001	Y	Y		N								Y		N						
007	003	001	Y	Y		N		Y					N			N						
008	003	001	Y	Y		N		Y		Y			Y			N						
009	003	001	Y	Y		N			Y		N					N						
010	003	001	Y	Y		N			Y	Y			Y			N						
012	003	001	Y	Y		Y							Y							N		N
013	003	001	Y	Y		Y	Y											N				N
014	003	001	Y	Y		Y	Y													Y		N
015	003	001	Y	Y		Y															Y	N
016	003	001	Y	Y		Y		Y										N				N
017	003	001	Y	Y		Y		Y												Y		N
018	003	001	Y	Y		Y			Y								N					N
019	003	001	Y	Y		Y			Y											Y		N

APPROVALS & DATES	PROCESS AREA	PROCESS AREA DESCRIPTION	PROCESS AREA CONTACT PERSON		DATA RULES		PREPARED BY
	0150	CREDIT	J. SACKRO			OBERT TAMM	

RULE NUMBER		WEEKLY FREQUENCY	IS THE CREDIT LIMIT(248) > IN-PROCESS BALANCE(253) + ACCOUNTS RECEIVABLE BALANCE (252) + ORDER AMOUNT (999) ?	IS THE ORDER TERM (998) BETTER THAN THE CUSTOMER ALLOWED TERM (997) ?	IS THE CUSTOMER PAST DUE BALANCE (196) ZERO ?	DOES THE CUSTOMER HAVE PROMPT PAYMENT (995) EXPERIENCE ?	IS THE CREDIT LIMIT (248) > IN-PROCESS BALANCE (253) + ACCOUNTS RECEIVABLE BALANCE (252) + ORDER AMOUNT (999) − A/R NEXT 14 DAYS (994)				SEND NOTICE (099) TO SALES (0200)
CURRENT	PRIOR											
001		300	Y	N	Y							
002		100	N	N	Y		Y					
003		150	Y	N	N		—					
004		50	N	N	N	Y	Y					
005		7	N	N	N	Y	N					Y
006		5	Y	N	N	N	—					Y
007		2	—	Y	—	—	—					Y

FIGURE 5   EVANS

Professional status -
hiring & keeping qualified people.

Reasons why TABSOL material should be released.

(1) Evans has released a tabular programming -
analytic technique -
to Western Region Inter-System Group
will present to full CODASYL 1/19 - 1/22

(2) Many in the field know we've done work on
systems languages -
HFD - SDC Speech
- private conversations
Spiegelthal, Canning, Sisson, Murdock, CUC

(3) Now is the time for decision on basic language
patterns for the future -
needed to really boost the entire use
of computers - automatic systems -
benefits GE - their computers
transistors, diodes
num machine tool controls
communications, instrument, actuation
increased use of electricity

(4) GE can establish role of leader in Systems
concept development - computer applications
The USER - oriented company
- sales,
- personnel

(5) Get our ideas into the mainstream of
language development -
not like CAGE

(6) Professional integrity & responsibility

(7) We have been pressing for release - see correspondence
our own Computation dept thinks

(8)

Publication of ISP material

(1) Request immediate pub of TABSOL, Decsn Tables

(2) basic concept has been released by others.

(3) Cannot restrain outsiders on this material now
    that it has been released
          Canning, Jason, CUC, Murdock,
          Spiegelthal, McCracken

(4) Directly hurts those who have contributed: professional recognition & status
          Grad, Kav, Cantrell, Weizenbaum

(5) we are participating in CODASYL on a dishonest
          basis —

(6) Hinders our hiring & retaining of professionals

(7) Anything which builds computer use is
          good for us —

(8) G.E. internal use would be accelerated
    by having other track mfrs prepare
    compilers, interpreters —
    we would tremendous initial advantage of

(9) Should plan release of other material · in
    reasonable time interval.

Letter to GUB

(1) Presentation of TABSOL (str tat + processor[702]) Jan
to Int. Language Committee.

(2) Release of "personal" copies to experts in field — Dec '59
Simson, Canning, CUC, Evans,
McCracken, Bemer, Hopper, Art Katz,
+ a few others — Perlis, JwCarr, Int Lang Com.
— for personal use only — Orchard-Hays, McCarthy MIT
Bat Brown (Honeywell), Brosch (CEIR), Phil Thompson (MECA),
Spiegelthal, "GUIDE", Shaw, Sabin, Conway, McGarrah,

(3) AIEE — Initial formal mention — BG Jan.

(4) ACM Commun — 301 Feb

(5) NJCC — speech } TEM 702
proceedings
ACM Journal   Canfield — LOGTAB

(6) AIEE — speech } BG — General ISP (300)
proceedings
AIEE Journal }
Nidenberg ?
May ?

General pub —

Trade pub —

Unrefereed pub —

Journals

proceedings

meetings

private dist.

ASME - Nidenberg
ORSA - (305)
TIMS - (309)
EJCC - (650 TABSOL)
ACM - (305 TABSOL)

Language Group 1/19 - 301,302
305,309

Wiley Books - BG, TPK edition
Mt + P speeches
detailed carry through
7 examples
others as Cons Eds

AIEE - Jan - BG - me present outline
+ table release
BG
TPK   TABSOL, Dec Drv TABLES
aimed at accuracy
not method.

WJCC - TPK - 302
BG
TPK ? publish in ACM Journal
cantrell.

AIIE - BG - ISP.
BG
TPK   publish - DIE Journal
Nidenberg, May

ACM Commun - 301
↳ BG, TPK, JK
AIEE - later : Langenwalter

① TABSOL — tables
movement

② applic of TABSOL
to functional areas

③ ISP — sight
dev.

NACA - Mac Mullen
ASoc - Schultz

send advance copies of 301, 302
    to Sisson, Canning, Kelly, Evans, McCracken, AJRowe
send copies of 301, 302 to
        COBOLT committee,   Newell, Simon, Shaw
        Bemer, Hopper, Katz   Spiegelthal.
        Honeywell contact   GUIDE

arrange for formal presentation to intermediate language committee
distribute 305 TABSOL as soon as complete -
        GE Tech Dist List, Lewis, all 305 users
        Same as 301, 302 above
Announce 650 TABSOL Specs
Distribute 704 LOGTAB to appropriate personnel (Cantrell) - SHARE

Publish cut version of 301 (702 TABSOL) in ACM Communications - February
        3 authors, BG, TFK, JK. - 704 LOGTAB

A IEE presentation - end of Jan
        B Grad - present regular speech + Kavanagh speech TABSOL examples
        distribute paper . BG, TFK

AIFE - Formal presentation of TABSOL concept -   May
        use 302, improved for readability
          B Grad -
            arrange for AIIE publication - June
              BG, TFK
WJCC - Formal presentation of 301 (702 TABSOL)
        TFK -
        BG, TFK, JK paper.
      Cantrell Logtab (King?)
TIMS - Nidenberg - Cameron ; MAY   news release
ORSA -   Business week
EJCC -   computing news.
AIEG - DFL, Mount
AMA (?)
ACM Annual mtg - Kavanagh.
Data Proc Digest -
Share mtg - Feb - Cantrell

publish 305 TABSOL   BG, TFK, JK   - ACM Com
       650 TABSOL   BG, TFK, JK, Paul M. - ACM Com
other material - examples - Med Tnf ; 2 address language; relative addressing
          ISP progress reports

Book (Wiley) using Road Tour speeches plus appropriate
    visuals - BG, TFK and contributing authors -
        HFD, DFL, HWN, TEJ, SAM, H Healey.

TO: The Members of the Intermediate Range Task Force CODASYL Committee

FROM: J. A. Strong, Chairman

SUBJECT: Summary of Western Regional Systems Language Committee Meeting

DATE: December 11, 1959

The Western contingent of this committee convened a 2-day meeting, Thursday,

December 3, 1959 at 9:00 a.m. at the General Offices of North American

Aviation, Inc. Those present were:

>   Mr. Orren Evans
>   Hunt Foods Company
>   Fullerton, California
>
>   Mr. David Nelson
>   Lockheed Aircraft Corporation
>   Sunnyvale, California
>
>   Mr. John Smith
>   Aeronutronics - A Division of the Ford Motor Company
>   Newport Beach, California
>
>   Mr. J. Laurence Nelson
>   Norton Air Force Base
>   San Bernardino, California
>
>   Mr. Roy Nutt
>   Computer Sciences Corporation
>   Los Angeles, California
>
>   Mr. Jack Mayes
>   Dept. 892
>
>   Mr. Irvin Marshall
>   Dept. 892
>
>   Mr. Jack Strong
>   Dept. 892

The morning of the first day was occupied by each member expressing his views

on the character of a systems language. This seemed necessary since there

were several persons in attendance who had not previously participated in this

been compiled were gone over item by item to decide which appeared desirable
in a systems language. At the conclusion of this examination it seemed to be
the sense of the group that any attempt at the present time to effect sub-
stantial improvement in the quality of present compiler languages would be
futile. The committee generally agreed that the primitive verb lists specified
for various compilers were adequate. It was further believed that those effec-
tive terms which we had discussed and which we described as being sophisticated
verbs or macros, were of such a nature that they could be accommodated by pre-
sent compiler specifications -- if properly organized. It was felt that an
acceptable compiler must be an INTEGRATED entity, possessing the ability to
utilize in a natural way all of those facilities necessary to produce an infor-
mation processing machine language program, e.g., it must be recursive, have
report writing, sort merge, and input-output features. It is assumed that a
tool of the above description will be available.

In view of the foregoing conclusions, alternate courses of action to facilitate
the implementation of an information business processing system were discussed.
Mr. Orren Evans described a method employed by his company for documenting sys-
tems in tabular form. Examination of this scheme resulted in the suggestion
that it be further explored with the idea in mind that it might be used to pro-
vide all necessary information to a compiler. A cursory examination reveals
there is a high probability that this method of presentation will allow all of
the systems flexibility, the understandability by management and detailed in-
formation for the compiler that we have been seeking. It further seems likely
that a relatively simple translator would allow for the transfer of programs
from compiler to compiler (assuming it possesses the general characteristics
described above) with ease. It is well to point out that Mr. Evans' method
could be used to describe any system whether it be manual, EAM, or EDP in
nature. An integral part of this system includes elements of data description

which possesses all information required for machine implementation.

The committee decided that it would spend the next four weeks examining the system and that it would hold a second meeting on January 8, 1960 to discuss its findings. As soon as possible information will be duplicated and distributed to the entire committee for its inspection and it is hoped that the subject can be discussed in detail at our joint meeting on January 19, 1960. The committee feels that its meeting was highly educational, and is enthusiastic about the possibilities of this new approach. Happy holiday season to all.

Best regards,

Jack A. Strong, Chairman
Intermediate Range Language Committee

JAS:mp

Publication Plan for Dec. Sch Tables + Tabsol processor.

<table>
<tr><td>DEC STR TAB</td><td>704 TABSUB</td><td>702 TABSOL</td><td>305 TABSOL</td><td>650 TABSOL</td><td>PROD DES STR</td><td>MFG OP STR</td><td>COST DIST STR</td><td>QC STR</td></tr>
</table>

AIEE – Jan 30.

AIIE – May.

Communications of ACM
Data Proc. Digest

TIMS

ORSA

WJCC

Kavanagh
Grad
Kelly ?
May
Canfield
King
Mount
Lowpawalter
Lindenberg – Cameron

_____

Micro interpreter
Log No.