Approved For Release	0000/00/00	OLA DDDZOT	-0000ED0004	00000000
Approved For Release	ZUU8/U6/U3	· ( .IA-RDP / .3 I	ひしろとりRひしけ	いいいノいい.3ノ-6
Approvou i oi itologoo	2000,00,00	. On the to	00020110001	00020002

25X1

25X1 25X1

SPEED LETTER	REPL	Y REQUESTE	D DATE	pril 1970
SPEED LETTER	Y	ES N	LETTER NO	P 2/10
	FROM:			
				,
It gives a preliminary nave proposed - and contains referenceeding too far.  After you have had an eppertunit ogether for an informal discussion	readout of nees to matt	written our asse ers requ the con	ssment of diring decision tents - sug	and the system yeu sion before
				,
,			SIGNATU	Wy STRE
REPLY			SIGNATU	WY IRE
REPLY				
			DATE	

Usi Approved For Release 2008/06/03 : CIA-RDP73T00325R000100020032-6

FORM 1921

SIGNATURE

17 APR 1970

25X1

MEMORANULM FOR:

THROUGH:

Chief, Information Systems Branch, AID/PSG/NPIC

SUBJECT:

Discussion of Project to Provide Remote Input/Edit/Update

Capabilities within the NPIC Management Information System

REFERENCE:

Request for Programming Support, dated 12 March 1970,

Project Number 920073

- 1. The purpose of this memorandum is to draw out a broad outline of:
  - a. The goals and objectives of the proposed system.
- b. The assumptions AID personnel will be using as a basis for their system design.
  - c. The functional provisions applicable to the system.
- d. Any problems and/or ambiguities that present themselves.

  At this time our discussion is being limited to comments on points b and d above, and phase one of the proposed system, since decisions and specifications for phases two and three are contingent on the groundwork laid by the resolutions reached in phase one.
- 2. The goal of this system is to make the input to the MIS update cycle timely, accurate, and readily available for analytical and statistical evaluation. The objectives by which we hope to reach this goal are:
  - a. The creation of a drum base file of the MIS update input data.
  - b. The creation of supplementary tables that would allow validation of the MIS input and accordingly will contain all active project

numbers, valid activity codes, NPIC skill codes and designation of DIA personnel.

- c. To provide programming for a remote access system that would utilize these files to verify and edit the input to the MIS update cycle.
  - (1) The use of this system utilizing drum based files would allow for the insertion into the system of time card data no later than 1600 hours on Tuesday of each week thus increasing the timeliness of input to the system.
  - (2) The system would perform edit and verification on the input data immediately upon its receipt, prior to its input to the MIS update cycle thus increasing the accuracy of the data being finally input to the update.
  - (3) The system would provide an error listing of cards that failed the pass edit and verification checks and which are to be corrected and re-input to the system. This listing would hopefully act as a help in decreasing the time needed to track down errors and correct input cards.
- 3. The assumptions being used as the basis of our systems design are:
  - a. Operational considerations such as responsibility for input and output, and updating supplemental tables will be able to be fulfilled.
    - b. The time card input will reside on a drum based file.
    - (1) Provisions will be made for the procedures and criteria by which a file of time card input is deemed as historical and

transferred either to a temporary file or tape for use by

PPB in analytical studies. Provisions must also be made

for file readiness for input to update, status of supplemental
tables, etc.

- (2) The time card input will be reduced to one project number and activity entry per card.
- (3) There will appear on the file as many records for each person as the number of different project and activities that he used that week.
- (4) The basic record will contain the person's name, badge number, grade, component, project number, activity, regular time and overtime hours, skill and DIA indicators.
- (5) The DIA indicator and NPIC skill code will not be carried over as input to the actual MIS update cycle, to allow compatibility with current system.
- (6) One item on this file will be made up of 11 words and thus three items will comprise a sector.
- c. The system will contain supplemental tables, based on drum files, that will contain all active project numbers, all valid component codes, all valid activity codes, NPIC skill codes for each individual badge number and DIA personnel by badge number.
  - (1) After its initial formation, the active project file will be updated via Project Notice input for the MIS update cycle, (Note Section IV, Point B) by designated personnel at a pre-determined time prior to the start of time card input for the week and following the previous week's update.

- (2) Provisions will have to be stated in order to allow for the other supplemental tables to be updated prior to the start of time card input. We assume input to this table update will be made by a predesignated person most able to monitor the information needed to affect changes in a timely and accurate manner.
- d. Input to the system will be via a number of DCT-2000s. In the case of time card input, it will be done by the predesignated person or persons; for such activities as table updates, it will be by the individuals held responsible for said input.
- e. Update data input in the system will result in the transmission to the originating LEN of a listing of the error cards which failed to pass the edit and verifications necessary. Such error cards will not be added to the drum file as only cards that pass the edit and verifications will be transferred to the drum file. It will be the responsibility of the representative of the organizational units to correct the error cards and re-input the corrected cards to the system. We assume that all corrections will be made by a time which PPBS will designate as a cut-off point. Statistics will be kept as to error activity that can be requested by AID/SIS and PPBS/RAD in lieu of two additional copies of each individual error listing (note Section IV, Point f).
- 4. The functional provisions that are to be resident within the system are:
  - a. Edit of the following conditions:

- (1) Badge number-alpha positions 15, numeric positions 16-18.
  - (2) Grade- numeric positions 19-20.
  - (3) Component alpha positions 21, numeric positions 22-23.
  - (4) Week Ending date numeric positions 24-29.
- (5) Project number numeric positions 30-35, blank or alpha positions 36-37.
  - (6) Activity numeric positions 38-40
  - (7) Time numeric in some position in the positions 41-46
  - (8) Positions 47-80 blank
- b. Verification of the following conditions:
  - (1) Active project number.
  - (2) Valid activity number.
  - (3) Valid component code.
  - (4) Does card have a valid combination in:
    - (a) Project number and component?
    - (b) Project number, component, activity?
  - (5) Is badge number in skill code look-up table?
  - (6) Does badge number indicate DIA personnel?
- c. The system will provide the capability for inputting time card data via the DCT-2000 both initially and reinserting for error cards or additional cards.
- d. It will provide for the transmission of an error listing of cards that fail to pass the edit or validation to the originating LEN.

- e. It will provide for the compilation of statistics for reference of AID/SIS and PPBS/RAD. (see Attachments I-IV)
- f. The system will allow for updating of all supplemental table files.
- 5. The following comprises a list of the systems and procedural problems encountered thus far and additionally some suggestions and proposed solutions concerning these problems.
  - a. Is the group level the optimal breakdown point of responsibility with respect to MIS time card input? The attached graphs based on the MIS update as of March 7, 1970 provide some statistical data illustrating the apparent uneven workload distribution present when responsibility is relegated on the group level. The data presented here is verified by other recent MIS weeks.
  - b. There is a question of how other MIS update data, such as project notices and workphase notices, will enter the system. In order to be consistent and to permit all input data to be pre-edited and accurate, perhaps the best solution is to input this other MIS data in the same manner as time cards are input, and to store this data on the same or separate drum file. In any case, this still leaves the question of who is responsible for the input and verification of this data.
  - c. How are co-operative and contractor personnel to be handled and whose responsibility are they?
  - d. With respect to the DIA designator and the skill codes, it is felt that a more detailed description of their function and the analysis to be enacted upon them is required before certain system design decisions can be made. Such system considerations include

questions such as should these designations be carried over to the Master File and thus create a new level of ''D'' records, should skill code perhaps replace activity code in the Master File? Also, should skill code and DIA designator be dropped in the carryover of information to the Master File?

- e. The MIS drum files need both historical and backup capabilities. The basic questions here are the timing and the method. If magnetic tape is to serve as the historical and/or backup file, this must be accomplished through PAS. At what point in the weekly MIS cycle is the MIS drum file to be retired or backed up?
- f. What would be done with the two extra copies of the error listings? The statistical analyses outlined in Section 3 would seem to provide equivalent data in a more readable form.
- g. How is it to be determined when the MIS input is completed and ready for update? Perhaps a better (or additional) means than verbal or written acknowledgement from each MIS structural unit would be an ability to query the file to determine whether the file is complete, and, if not, which parts of the file are not complete. What criteria would then be required to indicate the relative completeness of the file? Furthermore, what would the deadline be for all error corrections to be made and the file to be complete?
- h. The supplemental tables of project numbers, and badge number skill codes and DIA designator seem better suited to storage as permanent drum files, since as card files or as internal program tables they would be difficult to update and maintain. Specifically, a card file would present the problem of each group having to input the upto-date card file for each run they made and a file internal to the program would require reassembly of the program for each

change made to the file. On the other hand, a drum file for these tables could be updated by MIS input of specified format; for example, project notices would update the active project file. In any case, who would then have responsibility for maintenance of these files and when in the MIS cycle should these updates occur?

- i. Current time card input to MIS card-to-tape program is about 5,000 single entry format cards. Thus, the Fastrand drum required for the MIS remote analysis should be about 1,700-2,200 sectors for time card input.
- j. The possibility exists that time cards could accidently be input to the system more than once. For example, on an error correction run, a time card which has already made the drum file might be re-input along with the corrected error cards. If a time card is input which is a duplicate of one previously input, what procedure should be followed? For example, if both cards are exactly the same should the last one input be flagged as an error and not be added to the drum file? Also, if both cards are the same except for the amount of time, should the last one input overlay the previous one on the drum file?
- k. Since badge numbers are reassignable, would a unique entity such as serial number or social security number be a better method for employee identification?
- 1. What procedure is to be followed in the handling of late cards from previous weeks?

	•	
		ISB/AID
		ISB/AID
<b>V</b> S		
Attachment I - IV	Sample of compiled st SIS and PPBS/RAD	tatistics for reference of AID/
Attachment V	Graph of average tran organizational eleme	nsaction/employee by major ents
Attachment VI		ribution of MIS input (time by major organizational elements
Attachment VII	Graph of distribution	n of employees by major organiza-

25X1

25X1

												4 to 10 to 1	•
						* ***	MIS REHOTE ARADY	SIS STATISTICS	REPORT			APRIL 14, 1970	
		TYPE	1 .	FRYORS TYPY 2	TYPE 3	TYPE 4	TIME CARD ENTRIES	# of Employees	RI HOURS	ot Holes	# OF RUMS	DATE AND STATE OF FIRST PUBLIC	DACY NUL
	AOO					•	·						
	.10					÷						e **	41
	20												
	30												
	40	2	٠.								•		
	- 50												
						•							
	60						•		· •				
	70	1.		ŧ									
	80								, <i>1</i>				
GROU	P TOTA	L		*									
-	C00		*:										
	01.					+ : *							
	02 . 03			, · .									•
DIŢĪ	SION TO	OTAL											•
	10 11 12					.•					•		
DIVI	12 SION TO	TAL							100			· · · · · · · · · · · · · · · · · · ·	- 1 - <del>1 - 1</del> - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	20					- '							
	21				:								
PIVIS	CION TO	TAL											
									•		PASE 1		
•					•							alawa namar y	
											•	Alakaran arasta a	

					MIS REMOTE ANALYS	SIS STATISFICE	REFORT			APUL 14, 1970	
T	YPE 1	FRRORI TFPV-2	S TYPE 3	PABE 4	TIME CARD ENTRIES	# of Employers	RT HOURS	GT HOURS	# 0 RUWS	VARI AD 11VR OF FIRST ROW	DASS POL
30 31 32				•							
DI/ISION TOTAL					· ·						
40 41 42											
DIVISION TOTAL								1 ×			
DOO						•					
E00 .										•	
21 22 23			· :						* , . *		•
CIVISION TOTAL	L					•		e - 200			
30 31 32 33 34						•					
TIVISION TOTA	ъ .		•				•				
40 41 42 43						. •		. •	•		

TOTAL

PAGE 2

WINTER OF THE

				.*	MIS REMOVE TAKE	ISTS STATIOTICS	REFORT		APRIL 16, 1970		
132	2 1	PYP ( S	s Type 3	TYPE, 4	TIVE CARP EWRIES	# of employees	RT HOURS	OT HOURS	# OF RUDS	DATE AND TIME OF FIRST RUN	LAST FUH
DIVISION TOTAL		•						•			

DIVISION TOTAL

70 71 72

DIVISION TOTAL GROUP TOTAL

ETC.

PAGE 3

ATTACHMENT TIL

MIS REMOTE AMALYSIS SUPPLEMENTAL TABLE STATISTICAL REPORT

APRIL 14, 1970

PROJECT MERGER TARIE

COMPONENT TABLE

MPIC SKILL CODE TABLE

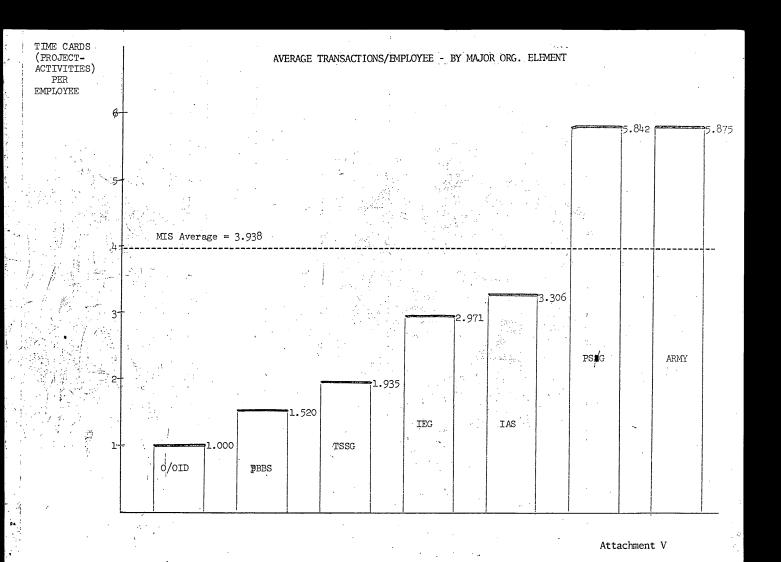
DIA PERSONNEL TABLE

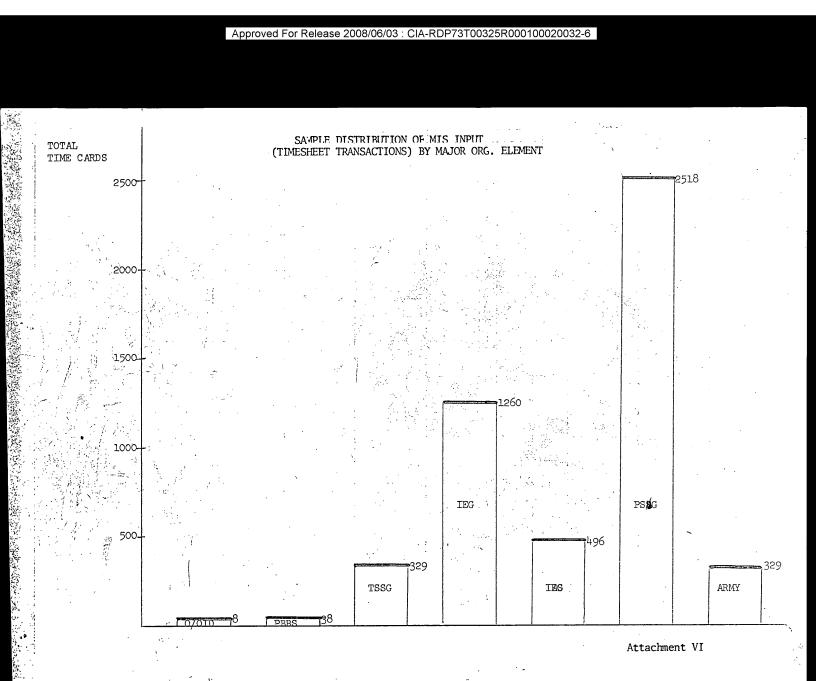
DATE OF LAST UPDATE

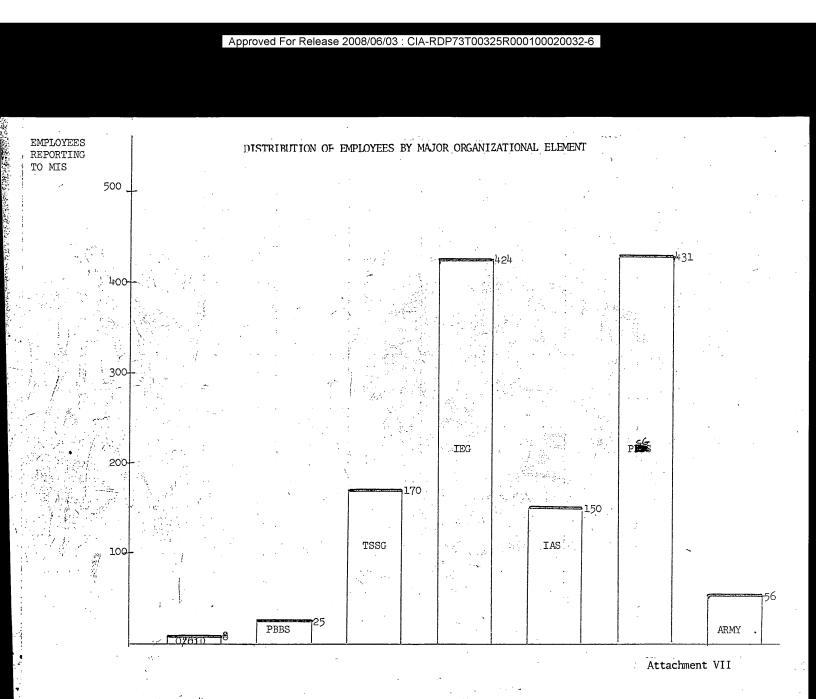
TIME OF LAST UPDATE

CURRENT # OF ENTRIES









	REPLY RE	QUESTED	1.7 Ap	ril 1970	
SPEED LETTER	YES	ИО	LETTER NO.		
:	1 1				
TN:					
SUBJECT: Project to Provide Remote In	out/Edit/Upo	late C	apabilities	within t	he MIS
1. Attached is a memorasidum for your					
. It gives a preliminary rea					
have proposed - and centains references	s to matter	s requ	iring decis	sion befor	re :
proceeding too far.					
2. After you have had an opportunity	to digest t	ne con	tents - sug	ggest we g	rot
together for an informal discussion as	to where w	e go f	rom here.		
			Á	). 1	
			ROB	1 1 mg	
					-
			SIGNA) DATE	URE	
REPLY					
				÷	
				•	
				•	
				•	

25**X**1

25**X**1

25**X**1

			· · · · · · · · · · · · · · · · · · ·
MEMORANUEM 1-01	₹:		DAD
THROUGH:	Chicf, Information	Systems Branch, AID/PSG/NPIC	Reis-
SUBJECT:	Discussion of Proje Capabilities within	ect to Provide Remote Input/Ed n the NPIC Management Informat	it/Úpdate ion System
REFERENCE:	Request for Program Project Number 9200	mning Support, dated 12 March	1970,
***		•	
1. The p	urpose of this memorar	ndum is to draw out a broad ou	tline of:
•		es of the proposed system.	
~~		sonnel will be using as a bas	is for
	tem design.		
c. T	he functional provisio	ons applicable to the system.	
(d) A	ny problems and/or amb	iguities that present themselv	ves.
		limited to comments on points	
$\sim$		ed system, since decisions and	$\sim$
` , .	the state of the s	contingent on the groundwork	
the resolutions	* Common a		
2. The go	oal of this system is	to make the input to the MIS i	ıpdate
		available for analytical and s	
		we hope to reach this goal ar	
1.		base file of the MIS update in	
data.			
ok b. Th	ne creation of suppleme	entary tables that would allow	valida- f
	ne MIS input and accord	American a gradual of	

ADD -

numbers, valid activity codes, NPIC skill codes and designation of DIA personnel. Component codes

- ok <u>c.</u> To provide programming for a remote access system that would utilize these files to verify and edit the input to the MIS update cycle.
- ok (1) The use of this system utilizing drum based files would allow for the insertion into the system of time card data no later than 1600 hours on Tuesday of each week thus increasing the timeliness of input to the system.
  - (2) The system would perform edit and verification on the input data immediately upon its receipt, prior to its input to the MIS update cycle thus increasing the accuracy of the data being finally input to the update.
- that failed the pass edit and verification checks and which are to be corrected and re-input to the system. This listing would hopefully act as a help in decreasing the time needed to track down errors and correct input cards.
- 3. The assumptions being used as the basis of our systems design

are:

? A1D

- a. Operational considerations such as responsibility for input and output, and updating supplemental tables will be able to be fulfilled.
  - b. The time card input will reside on a drum based file.

How? PPBS

(1) Provisions will be made for the procedures and criteria by which a file of time card input is deemed as historical and

transferred either to a temporary file or tape for use by
PPB in analytical studies. Provisions must also be made
for file readiness for input to update, status of supplemental
tables, etc.

- OK (2) The time card input will be reduced to one project number and activity entry per card.
- each person as the number of different project and activities that he used that week.
- (4) The basic record will contain the person's name, badge number, grade, component, project number, activity, regular time and overtime hours, skill and DIA indicators. wukanding dab
- carried over as input to the actual MIS update cycle, to allow compatibility with current system.
- ok (6) One item on this file will be made up of 11 words and thus three items will comprise a sector.
- c. The system will contain supplemental tables, based on drum files, that will contain all active project numbers, all valid component codes, all valid activity codes, NPIC skill codes for each individual badge number and DIA personnel by badge number.

(1) After its initial formation, the active project file will be updated via Project Notice input for the MIS update cycle, (Note Section IV, Point B) by designated personnel at a pre-determined time prior to the start of time card input for the week and following the previous week's update.

ADD

(2) Provisions will have to be stated in order to allow for the other supplemental tables to be updated prior to the start of time card input. We assume input to this table update will be made by a predesignated person most able to monitor the information needed to affect changes in a timely and accurate manner.

d. Input to the system will be via a number of DCT-2000s. In the case of time card input, it will be done by the predesignated who? person or persons; for such activities as table updates, it will be by the individuals held responsible for said input.

e. Update data input in the system will result in the transmission to the originating LEN of a listing of the error cards which failed to pass the edit and verifications necessary. Such error cards will not be added to the drum file as only cards that pass the edit and verifications will be transferred to the drum file. It will be the responsibility of the representative of the organizational units to correct the error cards and re-input the corrected cards to the system. We assume that all corrections will be made by a time which PPBS will designate as a cut-off point. Statistics will be kept as to error activity that can be requested by AID/SIS and PPES/RAD in lieu of two additional copies of each individual error listing (note Section IV, Point f).

- 4. The functional provisions that are to be resident within the system are:
  - a. Edit of the following conditions:

How will PPBS

- (1) Badge number-alpha positions 15, numeric positions 16-18.
  - (2) Grade- numeric positions 19-20.
  - (3) Component alpha positions 21, numeric positions 22-23.
  - (A) Week Ending date numeric positions 24-29.
- (5) Project number numeric positions 30-35, blank or alpha positions 36-37.
  - (6) Activity numeric positions 38-40
  - (7) Time numeric in some position in the positions 41-46
  - (8) Positions 47-80 blank
- b. Verification of the following conditions:
  - (1) Active project number.
  - (2) Valid activity number.
  - (3) Valid component code.
  - (4) Does card have a valid combination in:
    - (a) Project number and component?
    - (b) Project number, component, activity?
  - (5) Is badge number in skill code look-up table?
  - (6) Does badge number indicate DIA personnel?
- c. The system will provide the capability for inputting time card data via the DCT-2000 both initially and reinserting for error cards or additional cards.
- d. It will provide for the transmission of an error listing of cards that fail to pass the edit or validation to the originating LEN.

- e. It will provide for the compilation of statistics for reference of AID/SIS and PPBS/RAD. (see Attachments I-IV)
- f. The system will allow for updating of all supplemental table files. Who will be 74.5?
  - 5. The following comprises a list of the systems and procedural problems encountered thus far and additionally some suggestions and proposed solutions concerning these problems.
    - a. Is the group level the optimal breakdown point of responsibility with respect to MIS time card input? The attached graphs based on the MIS update as of March 7, 1970 provide some statistical data illustrating the apparent uneven workload distribution present when responsibility is relegated on the group level. The data presented here is verified by other recent MIS weeks.
    - b. There is a question of how other MIS update data, such as project notices and workphase notices, will enter the system. In order to be consistent and to permit all input data to be pre-edited and accurate, perhaps the best solution is to input this other MIS data in the same manner as time cards are input, and to store this data on the same or separate drum file. In any case, this still leaves the question of who is responsible for the input and verification of this data.
    - and whose responsibility are they?
    - d. With respect to the DIA designator and the skill codes, it is felt that a more detailed description of their function and the analysis to be enacted upon them is required before certain system design decisions can be made. Such system considerations include

questions such as should these d. Agnotions be carried over to the Master File and thus cre. — a new level of "D" records, should skill code perhaps replace activity code in the Master File? Also, should skill code and DIA designator be dropped in the carryover of information to the Master File?

- e. The MIS dram files need both historical and backup capabilities. The basic questions here are the timing and the method. If magnetic tape is to serve as the historical and/or backup file, this must be accomplished through PAS. At what point in the weekly MIS cycle is the MIS drum file to be retired or backed up?
- f. What would be done with the two extra copies of the error listings? The statistical analyses outlined in Section 3 would seem to provide equivalent data in a more readable form.
- g. How is it to be determined when the MIS input is completed and ready for update? Perhaps a better (or additional) means than verbal or written acknowledgement from each MIS structural unit would be an ability to query the file to determine whether the file is complete, and, if not, which parts of the file are not complete. What criteria would then be required to indicate the relative completeness of the file? Furthermore, what would the deadline be for all error corrections to be made and the file to be complete?
- h. The supplemental tables of project numbers, and badge number skill codes and DIA designator seem better suited to storage as permanent drum files, since as card files or as internal program tables they would be difficult to update and maintain. Specifically, a card file would present the problem of each group having to input the upto-date card file for each run they made and a file internal to the program would require reassembly of the program for each

change made to the file. On the other hand, a drum file for these tables could be updated by MIS imput of specified format; for example, project notices would update the active project file. In any case, who would then have responsibility for maintenance of these files and when in the MIS cycle should these updates occur?

- i. Current time card input to MIS card-to-tape program is about 5,000 single entry format cards. Thus, the Fastrand drum required for the MIS remote analysis should be about 1,700-2,200 sectors for time card input.
- j. The possibility exists that time cards could accidently be input to the system more than once. For example, on an error correction run, a time card which has already made the drum file might be re-input along with the corrected error cards. If a time card is input which is a duplicate of one previously input, what procedure should be followed? For example, if both cards are exactly the same should the last one input be flagged as an error and not be added to the drum file? Also, if both cards are the same except for the amount of time, should the last one input overlay the previous one on the drum file?
- k. Since badge numbers are reassignable, would a unique entity such as serial number or social security number be a better method for employee identification?
- 1. What procedure is to be followed in the handling of late cards from previous weeks?

	ISB/AID	
1		

A/S

Attachment I - IV Sample of compiled statistics for reference of AID/ SIS and PPBS/RAD

Attachment V Graph of average transaction/employee by major organizational elements

Attachment VI Graph of sample distribution of MIS input (time sheet transactions) by major organizational elements

Attachment VII Graph of distribution of employees by major organizational elements

25X1

25X1

						and and an artist of the second	ATS RESERVE A	caussis statisti	Tree bus anone	and the second s				
												ARBB N. 1.		
		V. V	e iji diki	TYPE	3	AAbs P	TEAR CARD EXTRIES	# or warlowns	Rjr D - AOURS -	OT HOLES	# Or RUSS	0501. Til Fill FIRST FFG	n den National	
E00						•		<del>-</del>						
.10														
30			•.								•			
30														
40													**	
50													*	
<u></u> 60					• •									•
70														
20	*								, t , t \$* 1					•
TP TOTAL												-		
000												· · · · · · · · · · · · · · · · · · ·		
01. 0≥ 03	•													
a vii nos	PAL		•	-										
10 11 12 0 180 190	37T													
130	i Isla	÷		٠					•	*				
11				•	:						· · · · · · · · · · · · · · · · · · ·			

2493 1

					and all officers	Mor - T		, www.promerro			
		977 T 3	SABL B	TURE COAL	# OF Employees	ROT HOURS	OT HOURS	∜ Or - RUCS	PART AT BINA OF TAGE		
			•		4.			•			
: ISISH TOTAL											
(5) (6) (6) (7) (7)	•			•							
62 53											
i wanan		•			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
70 71 72											
: 1. TOTAL : TOTAL											
	•	·				•					
ETO.											
							-				
					:						
					•			•			
-		¥ .									

PAGE 3

RES NOTICE ANALYSIS SUPPERCUENT LABOR STATISMICAL REPORT

ENGRES UP LA PAPAR OCCIONATE PARLE HETC SKILL CODE TARLE DIA PERSONERA TARRE

1907 M. BELVERE

in of bar decad

CLEVILL SOF FUERIES

