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FM DSD

TO GCHQ

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S E C R E T COMINT CHANNELS

SM—001—82

PROPOSED VISIT TO GCHQ, ████████████

FOR: ████████

INFO: ███

REFERENCES: A. DSD 030410Z JUL 81

B. GCHQ 091150Z JUL 81

C. DSD 140740Z AUG 81

1. IN CONNECTION WITH DSD'S FUTURE PLANNING FOR CRYPT COMPUTER

PROCESSING SUPPORT, WE ARE COMMENCING A DETAILED INVESTIGATION

INTO THE FOLKLORE OPERATING SYSTEM AND IMP PROGRAMMING LANGUAGE,

AND HAVE MADE SOME PREVIOUS ENQUIRIES REGARDING GCHQ EXPERIENCE

WITH THESE (REFERENCES A, B AND C).

2. A MEMBER OF DSD'S COMPUTER PROGRAMMING SECTION, ████████████,

IS VISITING ENGLAND AND EUROPE ON A SKIING HOLIDAY FROM 26 JAN

TO 20 FEB 1982, PROVIDING DSD WITH AN OPPORTUNITY FOR HIM TO VISIT

GCHQ IF YOU ARE AGREEABLE.

3. ████████ IS A MEMBER OF DSD'S CYBER OPERATING SYSTEM SUPPORT

TEAM, IS INVOLVED IN COMPUTER SUPPORT OF DSD CRYPT PROCESSING,

AND OVER THE NEXT YEAR WILL BE PARTICIPATING IN THE STUDY TO DETERMINE THE CHARACTERISTICS OF DSD'S NEXT CRYPT SUPPORT COMPUTER.

4. AS OUR UNDERSTANDING OF FOLKLORE AND IMP AT THIS STAGE IS LIMITED, IT WOULD BE OF CONSIDERABLE BENEFIT TO DSD IF ▮▮▮▮▮▮ COULD SPEND 5 DAYS WITH THE FOLKLORE COMPUTER SUPPORT PERSONNEL AT GCHQ FROM 22 FEB TO 26 FEB 1982.

5. SPECIFIC TOPICS HE WOULD WISH TO PURSUE INCLUDE:

. CONFIGURATION ISSUES FOR MACHINES SUPPORTING THE FOLKLORE OPERATING SYSTEM:

- MAIN MEMORY

- ECS

- DISCS

- SUPPORT OF 6250 BPI TAPES

. IMP PROGRAMMING LANGUAGE:

- HOW IMP COMPILER INTERFACES TO, AND USES FOLKLORE O/S FACILITIES AND UTILITIES

- HOW ARE IMP PROGRAMS LOADED?

- HOW ARE THEY ORGANISED IN MEMORY?

- HOW, AND TO WHAT EXTENT CAN THEY USE ECS?

- IMP/FOLKLORE FILE FACILITIES

- IMP AND ▮▮▮▮▮▮ CHARACTER SETS

. FOLKLORE OPERATING SYSTEM SUPPORT

- SOFTWARE MAINTENANCE SUPPORT REQUIRED

- LEVEL OF H/W ERROR RECOVERY

- EFFECT OF FOLKLORE ON MANUFACTURERS HARDWARE SUPPORT

. TERMINAL SUPPORT

- HOW ARE PTS TERMINAL SUBSYSTEMS SUPPORTED BY FOLKLORE/IMP?

- IS SUPPORT FOR OTHER TERMINALS POSSIBLE, EG DELTA DATA 7000S?

. HOW IS FOLKLORE SUPPORTED ON A CRAY-1

- 'FRONT ENDED' BY A 7600

- POTENTIAL FOR STAND ALONE OPERATION

6. WE APOLOGISE FOR THE SHORT NOTICE GIVEN, BUT ▮▮▮▮▮▮ HAS ONLY RECENTLY DECIDED ON HIS HOLIDAY. IF THE PROPOSED VISIT IS

ACCEPTABLE TO YOU IT WOULD BE APPRECIATED IF YOU COULD BOOK

ACCOMMODATION FOR ▓▓▓▓▓ FOR THE NIGHTS 21 FEB TO 26 FEB 1982.

▓▓▓▓▓ WILL NOT HAVE A HIRE CAR, SO PLEASE TAKE THIS (AND

THE WEATHER) INTO ACCOUNT IN SELECTING ACCOMMODATION. AS ▓▓▓▓▓

WILL UNDOUBTEDLY BE DEPARTING AUSTRALIA BEFORE ARRANGEMENTS ARE

FINALISED, COULD YOU PROVIDE A PHONE CONTACT IN CHELTENHAM IN ORDER

THAT HE CAN ASCERTAIN DETAILS ON HIS RETURN TO LONDON ON 20TH FEB.

7. ▓▓▓▓▓ IS CLEARED TOP SECRET AND ▓▓▓▓▓ COMINT

INDOCTRINATED.

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