

PRELIMINARY CPS EXPLOITATION DATA 1971 - 1975

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Attached is a revised and updated version of the table from MPS/SR/Note 70-21.

Much of what is said in Note 70-21 is still valid, essentially p. 1, 2, 3, but many of the dates and construction programmes assumed there should now be thrown open to discussion. In the new table only those dates are assumed fix where corresponding hardware production is definitely under way, all others have received question marks. Of course, also these "fixed" dates are subject to the decision to run or not run the PSB/CPS at  $10^{13}$  level in operation, but the necessary basic hardware will be available anyway. A number of changes in operation, particularly during 1973 are hence dependent on decisions which should be taken within the forthcoming months.

In view of the various proposals discussed now, it may be useful to summarize what main operation can be run with the equipment available or under construction now.

1972 (at  $2 \cdot 10^{12}$  level)

<u>Either</u>	up to 5 fast bursts SE 62 (T1 parasiting)	<u>or</u>	up to 5 fast bursts SE 16 with up to 30 % T1
<u>or</u>	up to 5 fast bursts T1 + 8 SE 62 parasiting with RF structure	<u>or</u>	up to 4 fast bursts FE of the remainder

Parasiting of SE 16 would only be possible by introducing a special flat-top with consequent loss of duty cycle.

From mid 73 onwards

- At  $10^{13}$  level (intensity depends on beam properties and FAK project)

1 fast burst on T11		1 fast burst on T11
1 fast burst to ISR/HBC 350	<u>or</u>	1 fast burst to ISR/HBC 350
SE 16 with up to $10^{12}$ on T1		FE 16 for the remainder

- At  $2 \cdot 10^{12}$  level  
as in 1972.

Any further involvement in operation at  $10^{13}$  level of S, E, or SE areas requires extra hardware as indicated in the table. It appears hence sensible to consider these operation cycles as the "base-line" of P.S. operation.

It should also be understood that in this brief note only some key pieces of hardware are indicated and that many other things must be provided for reliable operation.

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APPENDIX VII

- See also :
- 1) MPS/MU-NOTE EP 70-8  
The PS Improvement Programme and Experimental  
Facilities
  - 2) PS/Coord./Memo/1021  
Future Beam Sharing Possibilities between  
Experimental Areas
  - 3) MPS/MU-MEMO/EP 71-21  
Future PS Beam Sharing Facilities