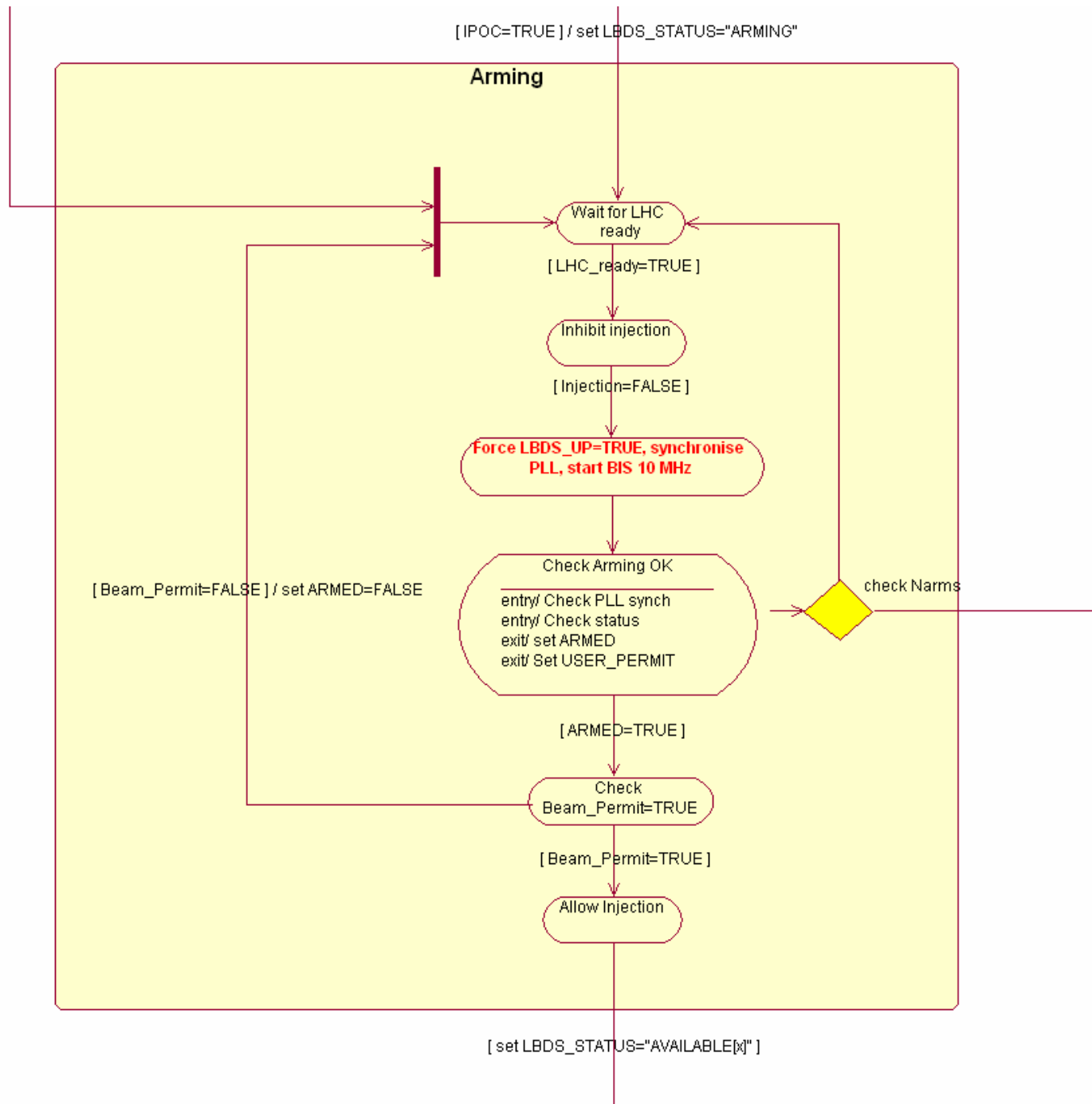


Beam dump-Injection link

- Arming beam dump requires
 - Interlock loop closed (need all LHC User_Permits)
 - RF frequency
- But...LBDS trigger/synch needs to be operational to give LBDS User_Permit
- Classic 'chicken and egg'.

How to arm the dump?

- Option 1: mask signal from BIS to LBDS during the arming process
 - ***Worst possible thing we can imagine!***
- Option 2: force UP from LBDS trigger/synch system TRUE during the arming process
 - Not great, but no better options immediately obvious
 - Do for short time (with the BIS 10 MHz signal)
 - Simultaneously inhibit injection – signals to IR2 & IR8



Proposal

- Arming dump safely is difficult
- Need to inhibit injection during this process
 - Beam permit OK, but risk of dump not being available
- Injection permit signals from IR6 to IR2&8
 - Either directly to the MKI...
 - ...or to the injection BICS
 - Injection loop – other clients?!?