15. Beam Crossing Number Generator

All counter operations are synchronized with EXB-X-clock.

Beginning of turn header is asserted.

Load the counter with value 1 when the

only when first-edge enable is asserted.

Increment the counter on the EXB-X-clock.

The beam crossing number runs from 1 through 159.

159 = 111 = 1111111

Terminate count at 159

Beam Counter

Initial Value: 0

B0 = 1

EXB-X-clock edges when first-edge enable is asserted.

But we only want the counter to load on those

required for the load operation to take place.

Increment operation is not

In the case of the load operation overides the

Start Count at 1

Load 159