

Notes from TNA AVIA 65/1792 [My added comments in red font.]

For RED SNOW: components and material purchased from the USA:

For TOM: [the fission trigger, an anglicised US W-34 warhead, also used alone as a fission warhead in the US Mk-101 Lulu NDB, the Mk-105 Hotpoint laydown bomb, and the Mk-45 nuclear torpedo.]

- a) Rough cast Cycotol hemispheres (to be finish machined in the UK) [Cyclotol is a trade description for a melt-cast HE, a mix of RDX and TNT, used for the W-34 supercharge. Clearly in just two halves. Not the first time that UK weapons used US sourced HE. Blue Danube used US sourced HE also, from Holstein, a US Army ammunition plant.] Did some work on this element myself. B.B.
- b) Rough cast icing in Composition B3 (to be finish machined in the UK) ['Icing' is jargon for the fast burning HE used as part of the explosive lenses, although there is archived evidence that the lenses for Red Snow were re-designed, making them uniquely British.]
- c) Neoprene sheath (Initial quantity ) [Possibly a neoprene rubber moulding.]
- d) Membrane and band.

For DICK: [the fusion secondary.]

- e) Stainless steel components, (initial quantity ) [Probably cast or forged using specialist tools, dies and moulds uneconomic to produce in the UK.]
- f) Lithium components (initial quantity) [the fusion fuel ... ? ... and note the plural.]

For Final Assembly:

- g) Channel filler [as discussed earlier ref Fogbank.]
- h) Nest assembly and band
- (i) AM Pot. [In the context of the archived files about THOR missiles in the UK this item was referred to by the codeword 'JAMPOT'. It refers to the double-walled pressurized container and its fittings for Tritium. Lots of refs to it in the Thor context because of the large numbers of reported leaks from the container and associated pipework, valves and squibs. Especially in the very cold, moisture-laden atmosphere of winter mornings in Lincolnshire and East Yorkshire. Every reason to suspect that Red Snow suffered a similar experience, because the W-49 warhead of Thor was merely an up-rated development of the W-28 and Red Snow.]