

The LOX/kerosene common core booster (CCB) is a wholesome structure that includes an oxidizer tank, a fuel tank (both tanks being coupled by a spacer) and a propulsion bay.

Each CCB is fit with one RD 191M high-power liquid engine.

This engine is being developed on the basis of (1) the four-chamber engine used earlier by the Energia launch vehicle and (2) the RD 170/171 engine still in operation on the Zenith LV.

One CCB is used by both the Angara 1.1 and the Angara 1.2 lightweight launch vehicles while five CCBs are integrated in 5A, a heavy launch vehicle. A version of 5A with three CCBs is also under study.

Angara 1.1 will use Breeze as its upper stage. (This upper stage has been successfully tested in combination with Rockot, a conversion-program launcher.) Angara 1.2 will employ the third stage being designed for an upgraded Soyuz ('Union') launch vehicle.

KhSC have already started production of the Stage 1 CCB for the Angara family.

All types of Angara launch vehicles will be processed at, and launched from, the Plesetsk launch base using the Processing and the Launch Facilities designed initially for the Zenith launch vehicle.

Possibilities are now being considered of launching Angara LVs from alternative paraequatorial launch bases.