

```

annex AGREE {**

eq nominal_Select_Alternate : bool;

eq pedals_pressed: bool = (pedal1.val > 0.0) and (pedal2.val > 0.0);

eq skid_active: bool = (cmd_nor.activate_antiskid) or (cmd_alt.activate_antiskid);

eq commanded_pressure: bool = (cmd_nor.val > 0.0) or (cmd_alt.val > 0.0);

guarantee "If pedals pressed, no skid, and wheel pressure is nonexistent, then
    select alternate should be true" :
    (nominal_Select_Alternate =
    faults.historically(false -> not (pre(pedals_pressed and not(skid_active)) =>
    wheel_pressure.val > 0.0)));

guarantee "Pedals pressed and no skid and normal implies pressure commanded" :
    pedals_pressed and (not skid_active) => commanded_pressure;

guarantee "Alternate pressure and normal pressure don't occur simultaneously." :
    not(cmd_alt.val > 0.0 and cmd_nor.val > 0.0);

**};

```