─────── MODULE $CheckRequirements$ ───────

VARIABLES $inputs1,\ output1$
VARIABLES $inputs2,\ output2$

$vars1 \triangleq \langle inputs1,\ output1 \rangle$
$vars2 \triangleq \langle inputs2,\ output2 \rangle$

$Requirements1 \triangleq$ INSTANCE $Requirements$
$\qquad\qquad$ WITH $inputs \leftarrow inputs1,$
$\qquad\qquad\qquad output \leftarrow output1$

$Requirements2 \triangleq$ INSTANCE $Requirements$
$\qquad\qquad$ WITH $inputs \leftarrow inputs2,$
$\qquad\qquad\qquad output \leftarrow output2$

$Init \quad\triangleq\ Requirements1!Init\ \wedge Requirements2!Init$
$Next \ \triangleq\ Requirements1!Next \wedge Requirements2!Next$

$RequirementsNotConflicting \ \triangleq\ inputs1 = inputs2 \Rightarrow output1 = output2$
$EndsInSteadyState \ \triangleq\ \Diamond\Box[output1 = output2]_{\langle output1,\ output2 \rangle}$

───────────────────────────────