$$
\begin{aligned}
&\forall t\, \forall y\, \forall t'\, \forall y'\, ((R_{S_0}(t,y) \wedge I(t,y) \wedge K_{q_1}(t) \wedge F(t,t') \wedge F(y,y')) \\
&\quad \rightarrow (I(t',y') \wedge R_{S_1}(t',y) \wedge K_{q_2}(t') \\
&\qquad \wedge \forall z\, (F(z,y') \vee ((R_{S_0}(t,z) \rightarrow R_{S_0}(t',z)) \wedge \\
&\qquad\quad (R_{S_1}(t,z) \rightarrow R_{S_1}(t',z)) \wedge (R_{S_2}(t,z) \rightarrow R_{S_2}(t',z)))))) \wedge \\
&\forall t\, \forall y\, \forall t'\, \forall y'\, ((R_{S_0}(t,y) \wedge I(t,y) \wedge K_{q_2}(t) \wedge F(t,t') \wedge F(y,y')) \\
&\quad \rightarrow (I(t',y') \wedge R_{S_0}(t',y) \wedge K_{q_3}(t') \\
&\qquad \wedge \forall z\, (F(z,y') \vee ((R_{S_0}(t,z) \rightarrow R_{S_0}(t',z)) \wedge \\
&\qquad\quad (R_{S_1}(t,z) \rightarrow R_{S_1}(t',z)) \wedge (R_{S_2}(t,z) \rightarrow R_{S_2}(t',z)))))) \wedge \\
&\forall t\, \forall y\, \forall t'\, \forall y'\, ((R_{S_0}(t,y) \wedge I(t,y) \wedge K_{q_3}(t) \wedge F(t,t') \wedge F(y,y')) \\
&\quad \rightarrow (I(t',y') \wedge R_{S_2}(t',y) \wedge K_{q_4}(t') \\
&\qquad \wedge \forall z\, (F(z,y') \vee ((R_{S_0}(t,z) \rightarrow R_{S_0}(t',z)) \wedge \\
&\qquad\quad (R_{S_1}(t,z) \rightarrow R_{S_1}(t',z)) \wedge (R_{S_2}(t,z) \rightarrow R_{S_2}(t',z)))))) \wedge \\
&\forall t\, \forall y\, \forall t'\, \forall y'\, ((R_{S_0}(t,y) \wedge I(t,y) \wedge K_{q_4}(t) \wedge F(t,t') \wedge F(y,y')) \\
&\quad \rightarrow (I(t',y') \wedge R_{S_0}(t',y) \wedge K_{q_1}(t') \\
&\qquad \wedge \forall z\, (F(z,y') \vee ((R_{S_0}(t,z) \rightarrow R_{S_0}(t',z)) \wedge \\
&\qquad\quad (R_{S_1}(t,z) \rightarrow R_{S_1}(t',z)) \wedge (R_{S_2}(t,z) \rightarrow R_{S_2}(t',z))))))
\end{aligned}
$$