es-first-at-since'[11,40]

es-first-at-since'(es;i;e;$e.R(e)$;$e.P(e)$)
$\equiv_{\text{def}}$ loc(e) = i
& $R(e)$
& ($\exists e'$:E
((e' <loc e) c$\wedge$ ($P(e')$ & ($\forall e''$:E. $e' \leq$loc $e'' \Rightarrow$ (e'' <loc e) $\Rightarrow$ ($\neg R(e'')$))))))

clarification:

es-first-at-since'(es;i;e;$e.R(e)$;$e.P(e)$)
$\equiv_{\text{def}}$ es-loc(es; e) = $i \in$ Id
& $R(e)$
& ($\exists e'$:es-E(es)
(es-locl(es; e'; e)
c$\wedge$ ($P(e')$
& ($\forall e''$:es-E(es). es-le(es;e';e'') $\Rightarrow$ es-locl(es; e''; e) $\Rightarrow$ ($\neg R(e'')$))))))

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http://www.nuprl.org/FDLcontent/p0_963683_/p56_109031_{es-first-at-since!}.html