weak-precond-send-p[0,22]

weak-precond-send-p(es;T;A;l;tg;a;ds;P;f)
$\equiv_{\text{def}}$ ($\forall x$:Id. vartype(source(l);x) $\subseteq \rho$ $ds(x)$?Top)
    & $\forall e$@source(l). kind(e) = locl(a) $\Rightarrow$ valtype(e) $\subseteq \rho$ A
    & ($\forall e$:E. kind(e) = rcv(l,tg) $\Rightarrow$ valtype(e) $\subseteq \rho$ T)
    & ($\forall e'$:E.
        kind(e') = rcv(l,tg)
        $\Rightarrow$ kind(sender(e')) = locl(a)
            & P((state when sender(e')),val(sender(e')))
                & val(e') = f((state when sender(e')),val(sender(e'))))
    & $\forall e$@source(l).
        $\exists e'$:E.
        e c$\leq$ e'
        & kind(e') = rcv(l,tg) & $e \leq$ sender(e')
            $\vee$ loc(e') = source(l) & ($\forall v$:A. $\neg P$(state after e',v))

clarification:

weak-precond-send-p(es;T;A;l;tg;a;ds;P;f)
$\equiv_{\text{def}}$ ($\forall x$:Id. es-vartype(es; source(l); x) $\subseteq \rho$ fpf-cap(ds;IdDeq;x;Top))
    & alle-at(es;source(l);e.es-kind(es; e) = locl(a) $\in$ Knd $\Rightarrow$ es-valtype(es; e) $\subseteq \rho$ A)
    & ($\forall e$:es-E(es). es-kind(es; e) = rcv(l,tg) $\in$ Knd $\Rightarrow$ es-valtype(es; e) $\subseteq \rho$ T)
    & ($\forall e'$:es-E(es).
        es-kind(es; e') = rcv(l,tg) $\in$ Knd
        $\Rightarrow$ es-kind(es; es-sender(es; e')) = locl(a) $\in$ Knd
            & P(es-state-when(es;es-sender(es; e')),es-val(es; es-sender(es; e')))
                & es-val(es; e')
                    =
                    f(es-state-when(es;es-sender(es; e')),es-val(es; es-sender(es; e')))
                    $\in T$)
    & alle-at(es;source(l);e.$\exists e'$:es-E(es).
        es-causle(es;e;e')
        & es-kind(es; e') = rcv(l,tg) $\in$ Knd & es-le(es;e;es-sender(es; e'))
            $\vee$ es-loc(es; e') = source(l) $\in$ Id & ($\forall v$:A. $\neg P$(es-state-after(es;e'),v)))