next-world-state[11,40]

next-world-state$(D;i;s;k;v)$
$\equiv_{\mathrm{def}}$ $<$shift-state$(\lambda x.\mathrm{M}(i).\mathrm{ef}(k,x,\text{read-state}(s),v)?s(x))$
, doact$(k;v)$
, filter$(\lambda m.\mathrm{source}(\mathrm{mlnk}(m)) = i;\mathrm{M}(i).\mathrm{sends}(k,\text{read-state}(s),v))>$

clarification:

next-world-state$(D;i;s;k;v)$
$\equiv_{\mathrm{def}}$ $<$shift-state$(\lambda x.\text{d-m}(D;\ i).\mathrm{ef}(k,x,\text{read-state}(s),v)?s(x))$
, doact$(k;v)$
, filter$(\lambda m.\mathrm{source}(\mathrm{mlnk}(m)) = i;\text{d-m}(D;\ i).\mathrm{sends}(k,\text{read-state}(s),v))>$

http://www.nuprl.org/FDLcontent/p0_963683_/p26_68561_{next-world-state}.html