(define (domain flight-plan)

(:requirements :strips)

(:predicates

(is-pilot ?who)

(off ?who ?when)

(busy ?who ?when)

(is-day ?when)

(is-flight ?what)

(done ?what)

)

(:action fly

:parameters (?who ?what ?when)

:precondition (and (is-pilot ?who)

(is-day ?when)

(not (off ?who ?when))

(not (busy ?who ?when))

(is-flight ?what)

(not (done ?what))

)

:effect (and (done ?what)

(busy ?who ?when)

)

)

(:action call\_duty

:parameters (?who ?when)

:precondition (and (is-pilot ?who)

(is-day ?when)

(off ?who ?when)

)

:effect (and (not (off ?who ?when))

)

)

)