EVP Preemption Operation under FYA

A. Protected-only Operation

- When the FYA is not allowed (protected only), the pre-emption will bring up the protected left turn and the adjacent through phase. The opposing FYA will not be allowed during preemption (refer to Exhibit 1).

Exhibit 1 Emergency Vehicle Preemption: Protected-Only Operation

<table>
<thead>
<tr>
<th>PROTECTED ONLY OPERATION</th>
<th>EMERGENCY VEHICLE SIGNAL INDICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>THROUGH GREEN</td>
</tr>
<tr>
<td></td>
<td>LEFT GREEN ARROW</td>
</tr>
<tr>
<td></td>
<td>FLASHING YELLOW ARROW</td>
</tr>
<tr>
<td></td>
<td>THROUGH RED</td>
</tr>
<tr>
<td></td>
<td>LEFT RED ARROW</td>
</tr>
</tbody>
</table>

NOTE: SEE THE TEXT IN THE MANUAL FOR A DISCUSSION ON PHASE TERMINATION SEQUENCE ONCE EVP CALL IS RECEIVED.

B. Protected/Permissive Operation (Note: Permissive operation is the same as protected/permissive operation for preemption as permissive operation is just a subset of protected/permissive operation.)

There are currently two options for running pre-emption under protected/permissive operation and the option is left up to emergency-vehicle preference based on their most common response routes.

The current two options for preemption for Protected/Permissive operation:

1. Don’t Terminate Through Phases (preempt on through phases, FYA on, i.e. no protected left turn phases) - Refer to Exhibit 2.
   a) If the through phases in the direction of the emergency vehicle (EV) are green and lefts are in FYA, pre-empt keeps the throughs and FYAs on.
   b) If the through and left in the direction of the EV are green, terminate the left and bring up the opposing through and operate the lefts in FYA.
   c) If the side street throughs are green, a preempt on the main street terminates the side street and brings up the main street throughs and FYAs.
2. Terminate Both Through Phases (FYA off) – Refer to Exhibit 3.
   a) If the through phases in the direction of the EV are green and lefts are in FYA, pre-empt terminates both through phases, and brings the through and left green arrow for the direction of the EV (FYA off for opposing left turn).
   b) If the left green arrow and through phase in the direction of the EV are green, pre-empt the left green arrow and through phase and then brings up this same green arrow and through phase (FYA off for opposing left turn).
   c) If the left green arrow and through phase in the opposing direction of the EV are green, pre-empt terminates the left green arrow and through phase and brings up the opposing (EV direction) left green arrow and through phase (FYA off for opposing left turn).
   d) If the side-street is green, a pre-empt on the main street terminates the side-street phases and bring up the left green arrow and through in the direction of the EV (FYA off for opposing left turn).

Exhibit 3 Emergency Vehicle Preemption: Protected/Permissive Operation (Option 2)

An additional Third Option with a FYA head while running lagging lefts during prot/permmissive or permissive operation is discussed here – Refer to Exhibit 4.
3. Terminate One Through Phase (preempt for through and adjacent left, opposing FYA on)
   a) If the through phases in the direction of the EV are green and lefts are in FYA, pre-empt terminates opposing through phase, and brings up green arrow and through for the direction of the EV (FYA on for opposing left turn)
   b) If the left green arrow and through phase in the direction of the EV are green, pre-empt continues the left green arrow and through phase (FYA on for opposing left turn)
   c) If the left green arrow and through phase in the opposing direction of the EV are green, pre-empt terminates the left green arrow and through phase and brings up the opposing (EV direction) left green arrow and through phase. (FYA on for opposing left turn)
   d) If the side-street is green, a pre-empt on the main street terminates the side-street phases and bring up the left green arrow and through in the direction of the EV (FYA on for opposing left turn).

Exhibit 4  Emergency Vehicle Preemption: Protected/Permissive Operation (Option 3)