

ภาคผนวก จ

ฐานกฎภายใน EnARS

```

identify 1 logo
if ((system ready)(start)=(atomic true))
then (@ logo)
((system menu01)(loaded)=(atomic true))
end-of-rule

identify 2 menu01
if ((system menu01)(loaded)=(atomic true))
then (@ menu01)
((select menu)(? select_menu)=(atomic true))
end-of-rule

identify 100 main_check
if ((select menu)(1)=(atomic true))
then (@ es01) (@ es02) (@ es03) (@ es04)
((variable es01)(answer)=(numerical (? es01)))
((variable es02)(answer)=(numerical (? es02)))
((variable es03)(answer)=(numerical (? es03)))
((variable es04)(answer)=(numerical (? es04)))
end-of-rule

identify 101 ease01
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 1))
then (@ es_case01) (@ es05) (@ es14) (@ es22) (@
es29)
((elec system)(checked and approved)=(atomic true))
end-of-rule

identify 102 case02
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 2))
then (@ es_case02) (@ es05) (@ es14) (@ es22)
((elec system)(checked and approved)=(atomic true))
end-of-rule

identify 103 case03
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 1))
then (@ es_case03) (@ es05) (@ es14) (@ es29)
((elec system)(checked and approved)=(atomic true))
end-of-rule

identify 104 case04
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 2))
then (@ es_case04) (@ es05) (@ es14)
((elec system)(checked and approved)=(atomic true))
end-of-rule

identify 105 case05
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 1))
then (@ es_case05) (@ es05) (@ es22) (@ es29)
((elec system)(checked and approved)=(atomic true))
end-of-rule

identify 106 case06
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 2))
then (@ es_case06) (@ es05) (@ es22)
((elec system)(checked and approved)=(atomic true))

```

end-of-rule

identify 107 case07

```
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 1))
then (@ es_case07) (@ es05) (@ es29)
((elec system)(checked and approved)=(atomic true))
```

end-of-rule

identify 108 case08

```
if ((variable es01)(answer)=(numerical 1))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 2))
then (@ es_case08) (@ es05)
((elec system)(checked and approved)=(atomic true))
```

end-of-rule

identify 109 case09

```
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 1))
then (@ es_case09) (@ es14) (@ es22) (@ es29)
((elec system)(checked and approved)=(atomic true))
```

end-of-rule

identify 110 case10

```
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 2))
then (@ es_case10) (@ es14) (@ es22)
((elec system)(checked and approved)=(atomic true))
```

end-of-rule

identify 111 case11

```
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 1))
then (@ es_case11) (@ es14) (@ es29)
((elec system)(checked and approved)=(atomic true))
```

end-of-rule

identify 112 case12

```
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 1))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 2))
then (@ es_case12) (@ es14)
((elec system)(checked and approved)=(atomic true))
```

end-of-rule

identify 113 case13

```
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 1))
then (@ es_case13) (@ es22) (@ es29)
((elec system)(checked and approved)=(atomic true))
```

end-of-rule

identify 114 case14

```
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 1))
((variable es04)(answer)=(numerical 2))
then (@ es_case14) (@ es22)
((elec system)(checked and approved)=(atomic true))
```

```

end-of-rule

identify 115      case15
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 1))
then (@ es_case15) (@ es29)
((elec system)(checked and approved)=(atomic true))

end-of-rule

identify 116      case16
if ((variable es01)(answer)=(numerical 2))
((variable es02)(answer)=(numerical 2))
((variable es03)(answer)=(numerical 2))
((variable es04)(answer)=(numerical 2))
then (@ es_case16)
((elec system)(checked and approved)=(atomic true))

end-of-rule

identify 117      end_es
if ((elec system)(checked and approved)=(atomic true))

then (@ es30)
((elec system)(checked and approved)=(atomic
finished))
end-of-rule

identify 118      menu01
if ((elec system)(checked and approved)=(atomic
finished))
then (@ menu01)
((select menu)(? select_menu))=(atomic true))
end-of-rule

identify 200      main_check
if ((select menu)(2)=(atomic true))
then (@ ts01) (@ ts02) (@ ts03)

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((variable ts01)(answer)=(numerical (? ts01)))
((variable ts02)(answer)=(numerical (? ts02)))
((variable ts03)(answer)=(numerical (? ts03)))
end-of-rule

identify 201      case01
if ((variable ts01)(answer)=(numerical 1))
((variable ts02)(answer)=(numerical 1))
((variable ts03)(answer)=(numerical 1))
then (@ ts_case01) (@ ts04) (@ ts05) (@ ts13)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

identify 202      case02
if ((variable ts01)(answer)=(numerical 1))
((variable ts02)(answer)=(numerical 1))
((variable ts03)(answer)=(numerical 2))
then (@ ts_case02) (@ ts04) (@ ts05)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

identify 203      case03
if ((variable ts01)(answer)=(numerical 1))
((variable ts02)(answer)=(numerical 2))
((variable ts03)(answer)=(numerical 1))
then (@ ts_case03) (@ ts04) (@ ts13)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

identify 204      case04
if ((variable ts01)(answer)=(numerical 1))
((variable ts02)(answer)=(numerical 2))
((variable ts03)(answer)=(numerical 2))
then (@ ts_case04) (@ ts04)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 205      case05
if ((variable ts01)(answer)=(numerical 2))
((variable ts02)(answer)=(numerical 1))
((variable ts03)(answer)=(numerical 1))
then (@ ts_case05) (@ ts05) (@ ts13)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 206      case06
if ((variable ts01)(answer)=(numerical 2))
((variable ts02)(answer)=(numerical 1))
((variable ts03)(answer)=(numerical 2))
then (@ ts_case06) (@ ts05)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 207      case07
if ((variable ts01)(answer)=(numerical 2))
((variable ts02)(answer)=(numerical 2))
((variable ts03)(answer)=(numerical 1))
then (@ ts_case07) (@ ts13)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 208      case08
if ((variable ts01)(answer)=(numerical 2))
((variable ts02)(answer)=(numerical 2))
((variable ts03)(answer)=(numerical 2))
then (@ ts_case08)
((transformer system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 209      end_ts
if ((transformer system)(checked and approved)=
(atomic true))

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then (@ ts17)
((transformer system)(checked and approved)=(atomic
finished))
end-of-rule

```

```

identify 210      menu01
if (transformer system)(checked and approved)=(atomic
finished))
then (@ menu01)
((select menu)((? select_menu)=(atomic true))
end-of-rule

```

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identify 300      main_check
if ((select menu)(3)=(atomic true))
then (@ ms01) (@ ms02) (@ ms03) (@ ms04)
((variable ms01)(answer)=(numerical (? ms01)))
((variable ms02)(answer)=(numerical (? ms02)))
((variable ms03)(answer)=(numerical (? ms03)))
((variable ms04)(answer)=(numerical (? ms04)))
end-of-rule

```

```

identify 301      ease01
if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 1))
then (@ ms_case01) (@ ms05) (@ ms24) (@ ms06) (@
ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 302      case02
if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case02) (@ ms05) (@ ms24) (@ ms06)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

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identify 303      ease03

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if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 1))
then (@ ms_case03) (@ ms05) (@ ms24) (@ ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 304      ease04
if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case04) (@ ms05) (@ ms24)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 305      ease05
if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 2))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 1))
then (@ ms_case05) (@ ms05) (@ ms06) (@ ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 306      ease06
if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 2))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case06) (@ ms05) (@ ms06)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 307      ease07
if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 2))
((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 1))

```

```

then (@ ms_case07) (@ ms05) (@ ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 308      ease08
if ((variable ms01)(answer)=(numerical 1))
((variable ms02)(answer)=(numerical 2))
((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case08) (@ ms05)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 309      ease09
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 1))
then (@ ms_case09) (@ ms24) (@ ms06) (@ ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 310      ease10
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case10) (@ ms24) (@ ms06)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 311      ease11
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 1))
then (@ ms_case11) (@ ms24) (@ ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 312      ease01
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 1))
((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case12) (@ ms24)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 313      ase13
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 2))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 1))
then (@ ms_case13) (@ ms06) (@ ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 314      ease14
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 2))
((variable ms03)(answer)=(numerical 1))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case14) (@ ms06)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 315      ease15
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 2))
((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 1))
then (@ ms_case15) (@ ms23)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 316      ease16
if ((variable ms01)(answer)=(numerical 2))
((variable ms02)(answer)=(numerical 2))

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((variable ms03)(answer)=(numerical 2))
((variable ms04)(answer)=(numerical 2))
then (@ ms_case16)
((motor system)(checked and approved)=(atomic true))
end-of-rule

```

```

identify 317      end_ms
if ((motor system)(checked and approved)=(atomic
true))
then (@ ms25)
((motor system)(checked and approved)=(atomic
finished))
end-of-rule

```

```

identify 318      menu01
if ((motor system)(checked and approved)=(atomic
finished))
then (@ menu01)
((select menu)((? select_menu))=(atomic true))
end-of-rule

```

```

identify 400      main_check
if ((select menu)(4)=(atomic true))
then (@ as01) (@ as02) (@ as03) (@ as04)
((variable as01)(answer)=(numerical (? as01)))
((variable as02)(answer)=(numerical (? as02)))
((variable as03)(answer)=(numerical (? as03)))
((variable as04)(answer)=(numerical (? as04)))
end-of-rule

```

```

identify 401      case01
if ((variable as01)(answer)=(numerical 1 ))
((variable as02)(answer)=(numerical 1 ))
((variable as03)(answer)=(numerical 1 ))
((variable as04)(answer)=(numerical 1 ))
then (@ as_case01) (@ as05) (@ as10) (@ as15) (@
as22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 402      case02
if ((variable as01)(answer)=(numerical 1))
((variable as02)(answer)=(numerical 1))
((variable as03)(answer)=(numerical 1))
((variable as04)(answer)=(numerical 2))
then (@ as_case02) (@ as05) (@ as10) (@ as15)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 403      ease03
if ((variable as01)(answer)=(numerical 1))
((variable as02)(answer)=(numerical 1))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 1))
then (@ as_case03) (@ as05) (@ as10) (@ ms22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 404      ease04
if ((variable as01)(answer)=(numerical 1))
((variable as02)(answer)=(numerical 1))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 2))
then (@ as_case04) (@ ms05) (@ ms10)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 405      ease05
if ((variable as01)(answer)=(numerical 1))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 1))
((variable as04)(answer)=(numerical 1))
then (@ as_case05) (@ ms05) (@ ms15) (@ ms22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 406      ease06
if ((variable as01)(answer)=(numerical 1))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 1))
((variable as04)(answer)=(numerical 2))
then (@ as_case06) (@ as05) (@ as15)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 407      ease07
if ((variable as01)(answer)=(numerical 1))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 1))
then (@ as_case07) (@ as05) (@ as22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 408      ease08
if ((variable as01)(answer)=(numerical 1))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 2))
then (@ as_case08) (@ as05)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 409      ease09
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 1))
((variable as03)(answer)=(numerical 1))
((variable as04)(answer)=(numerical 1))
then (@ as_case09) (@ as10) (@ as15) (@ as22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 410      ease10
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 1))
((variable as03)(answer)=(numerical 1))
((variable as04)(answer)=(numerical 2))
then (@ as_case10) (@ as10) (@ as22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 411      ease11
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 1))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 1))
then (@ as_case11) (@ as10) (@ as22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 412      ease01
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 1))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 2))
then (@ as_case12) (@ ms10)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 413      ease13
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 1))
((variable as04)(answer)=(numerical 1))
then (@ as_case13) (@ as15) (@ ms22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 414      ease14
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 1))
((variable as04)(answer)=(numerical 2))
then (@ as_case14) (@ as15)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 415      ease15
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 1))
then (@ as_case15) (@ as22)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 416      ease16
if ((variable as01)(answer)=(numerical 2))
((variable as02)(answer)=(numerical 2))
((variable as03)(answer)=(numerical 2))
((variable as04)(answer)=(numerical 2))
then (@ as_case16)
((aircondition system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 417      end_as
if ((aircondition system)(checked and approved)=
(atomic true))
then (@ as31)
((aircondition system)(checked and approved)=(atomic
finished))
end-of-rule

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identify 418      menu01

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if ((aircondition system)(checked and approved)=
(atomic finished))
then (@ menu01)
((select menu)((? select_menu))=(atomic true))
end-of-rule

```

```

identify 500      main_check
if ((select menu)(5)=(atomic true))
then (@ is01) (@ is02) (@ is03)
((variable is01)(answer)=(numerical (? is01)))
((variable is02)(answer)=(numerical (? is02)))
((variable is03)(answer)=(numerical (? is03)))
end-of-rule

```

```

identify 501      case01
if ((variable is01)(answer)=(numerical 1))
((variable is02)(answer)=(numerical 1))
((variable is03)(answer)=(numerical 1))
then (@ is_case01) (@ is04) (@ is09) (@ is10)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 502      case02
if ((variable is01)(answer)=(numerical 1))
((variable is02)(answer)=(numerical 1))
((variable is03)(answer)=(numerical 2))
then (@ is_case02) (@ is04) (@ is09)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 503      case03
if ((variable is01)(answer)=(numerical 1))
((variable is02)(answer)=(numerical 2))
((variable is03)(answer)=(numerical 1))
then (@ is_case03) (@ is04) (@ is10)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 504      case04
if ((variable is01)(answer)=(numerical 1))
((variable is02)(answer)=(numerical 2))
((variable is03)(answer)=(numerical 2))
then (@ is_case04) (@ is04)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 505      case05
if ((variable is01)(answer)=(numerical 2))
((variable is02)(answer)=(numerical 1))
((variable is03)(answer)=(numerical 1))
then (@ is_case05) (@ is09) (@ is10)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 506      case06
if ((variable is01)(answer)=(numerical 2))
((variable is02)(answer)=(numerical 1))
((variable is03)(answer)=(numerical 2))
then (@ is_case06) (@ is09)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 507      case07
if ((variable is01)(answer)=(numerical 2))
((variable is02)(answer)=(numerical 2))
((variable is03)(answer)=(numerical 1))
then (@ is_case07) (@ is10)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 508      case08
if ((variable is01)(answer)=(numerical 2))
((variable is02)(answer)=(numerical 2))

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```

((variable is03)(answer)=(numerical 2))
then (@ is_case08)
((illumination system)(checked and approved)=(atomic
true))
end-of-rule

identify 509      end_is
if ((illumination system)(checked and approved)=
(atomic true))
then (@ is17)
((illumination system)(checked and approved)=(atomic
finished))
end-of-rule

identify 510      menu01
if ((illumination system)(checked and approved)=
(atomic finished))
then (@ menu01)
((select menu)((? select_menu))=(atomic true))
end-of-rule

identify 600      main_check
if ((select menu)(6)=(atomic true))
then (@ wps01) (@ wps02)
((variable wps01)(answer)=(numerical (? wps01)))
((variable wps02)(answer)=(numerical (? wps02)))
end-of-rule

identify 601      case01
if ((variable wps01)(answer)=(numerical 1))
((variable wps02)(answer)=(numerical 1))
then (@ wps_case01) (@ wps03)      (@ wps04)
((water_pump system)(checked and approved)=(atomic
true))
end-of-rule

identify 602      case02
if ((variable wps01)(answer)=(numerical 1))
((variable wps02)(answer)=(numerical 2))
then (@ wps_case02) (@ wps03)

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((water_pump system)(checked and approved)=(atomic
true))
end-of-rule

identify 603      case03
if ((variable wps01)(answer)=(numerical 2))
((variable wps02)(answer)=(numerical 1))
then (@ wps_case03) (@ wps04)
((water_pump system)(checked and approved)=(atomic
true))
end-of-rule

identify 604      case04
if ((variable wps01)(answer)=(numerical 2))
((variable wps02)(answer)=(numerical 2))
then (@ wps_case04)
((water_pump system)(checked and approved)=(atomic
true))
end-of-rule

identify 605      end_acs
if ((water_pump system)(checked and approved)=
(atomic true))
then (@ wps11)
((water_pump system)(checked and approved)=(atomic
finished))
end-of-rule

identify 606      menu01
if ((water_pump system)(checked and approved)=
(atomic finished))
then (@ menu01)
((select menu)((? select_menu))=(atomic true))
end-of-rule

identify 700      main_check
if ((select menu)(7)=(atomic true))
then (@ acs01) (@ acs02)
((variable acs01)(answer)=(numerical (? acs01)))
((variable acs02)(answer)=(numerical (? acs02)))
end-of-rule

```

```

identify 701      case01
if ((variable acs01)(answer)=(numerical 1))
((variable acs02)(answer)=(numerical 1))
then (@ acs_case01) (@ acs03) (@ acs04)
((air_pump system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 702      case02
if ((variable acs01)(answer)=(numerical 1))
((variable acs02)(answer)=(numerical 2))
then (@ acs_case02) (@ acs03)
((air_pump system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 703      case03
if ((variable acs01)(answer)=(numerical 2))
((variable acs02)(answer)=(numerical 1))
then (@ acs_case03) (@ acs04)
((air_pump system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 704      case04
if ((variable acs01)(answer)=(numerical 2))
((variable acs02)(answer)=(numerical 2))
then (@ acs_case04)
((air_pump system)(checked and approved)=(atomic
true))
end-of-rule

```

```

identify 705      end_acs
if ((air_pump system)(checked and approved)=(atomic
true))
then (@ acs12)
((air_pump system)(checked and approved)=(atomic
finished))
end-of-rule

```

```

identify 706      menu01
if ((air_pump system)(checked and approved)=(atomic
finished))
then (@ menu01)
((select menu)((? select_menu))=(atomic true))
end-of-rule

```