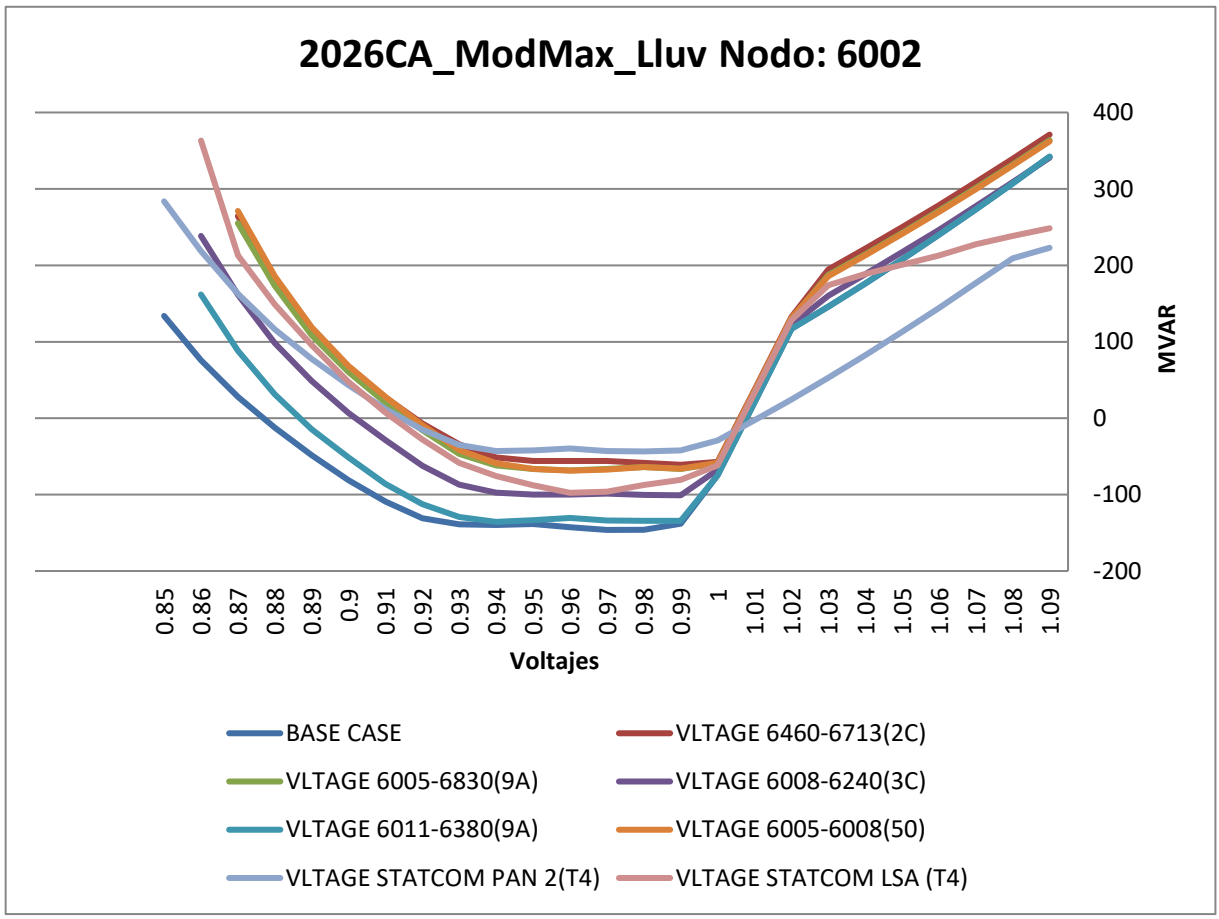
# ANEXO V
# ANÁLISIS QV CORTO PLAZO

# CASO DE REFERENCIA

# 2026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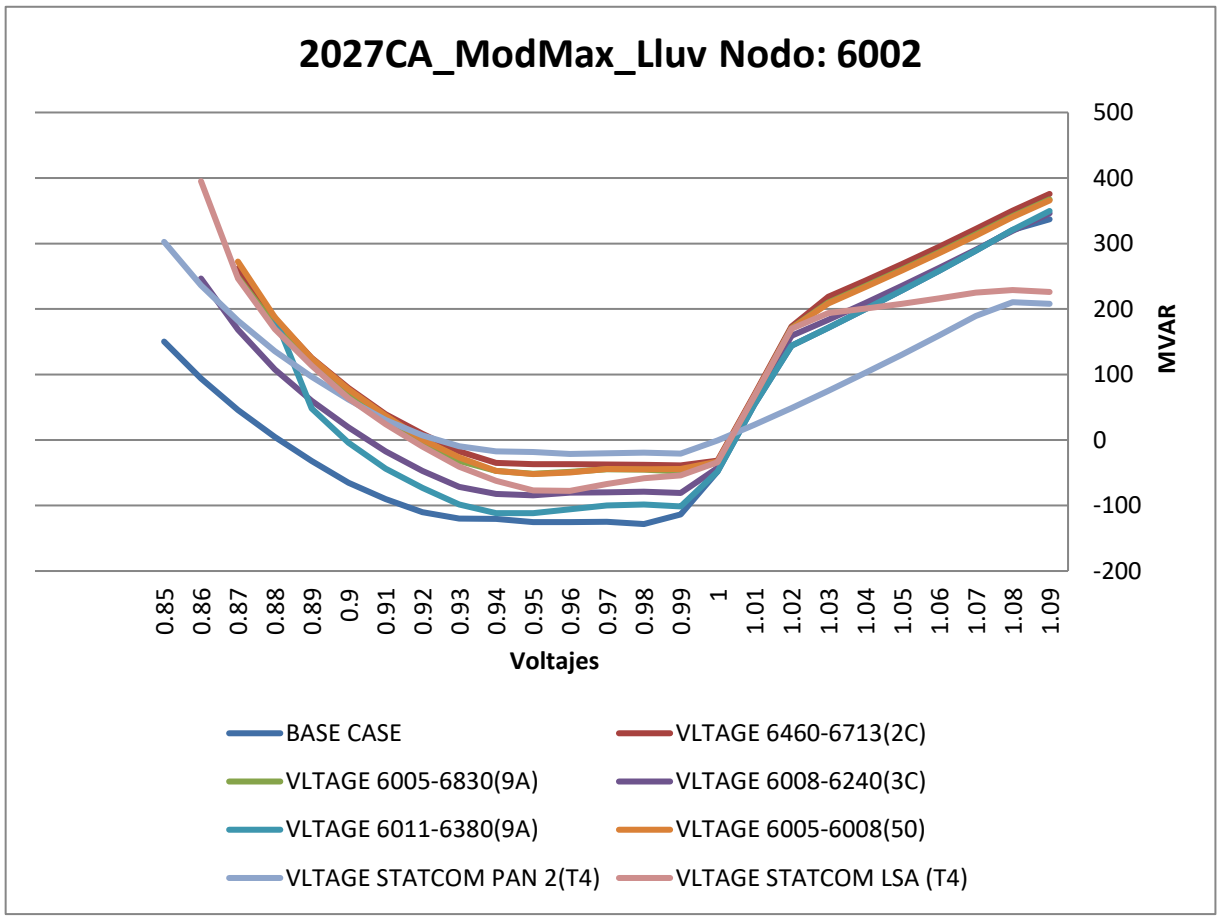
Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE 6005-6008(50)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | VLTAGE 6005-6008(50) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|---|
| **6002** | -146.2032928 | -60.94662094 | -68.32241058 | -100.9079666 | -135.6949463 | -68.71557617 | -43.52693176 | -97.62036133 |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Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE 6005-6008(50)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | VLTAGE 6005-6008(50) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|---|
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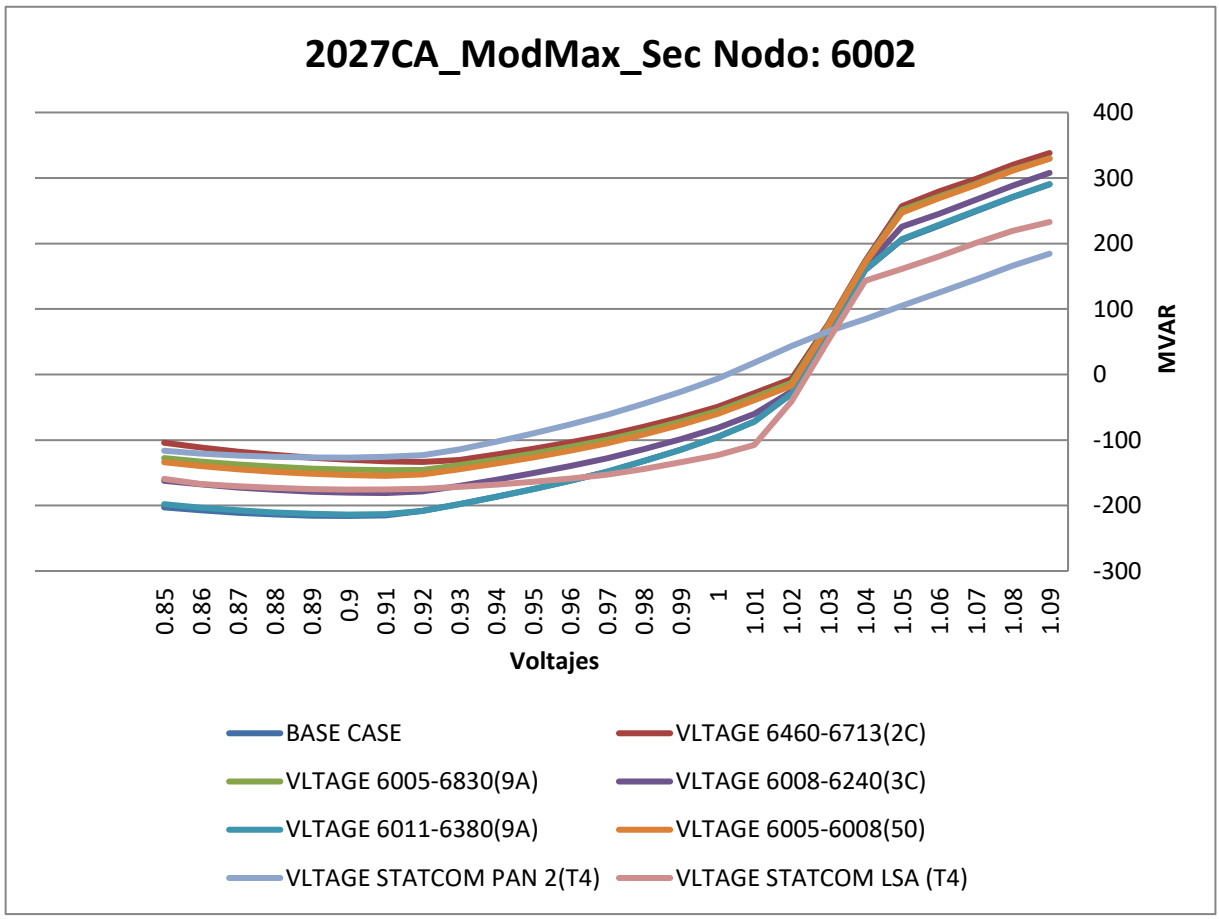
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Voltajes
BASE CASE
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VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE 6005-6008(50)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | VLTAGE 6005-6008(50) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
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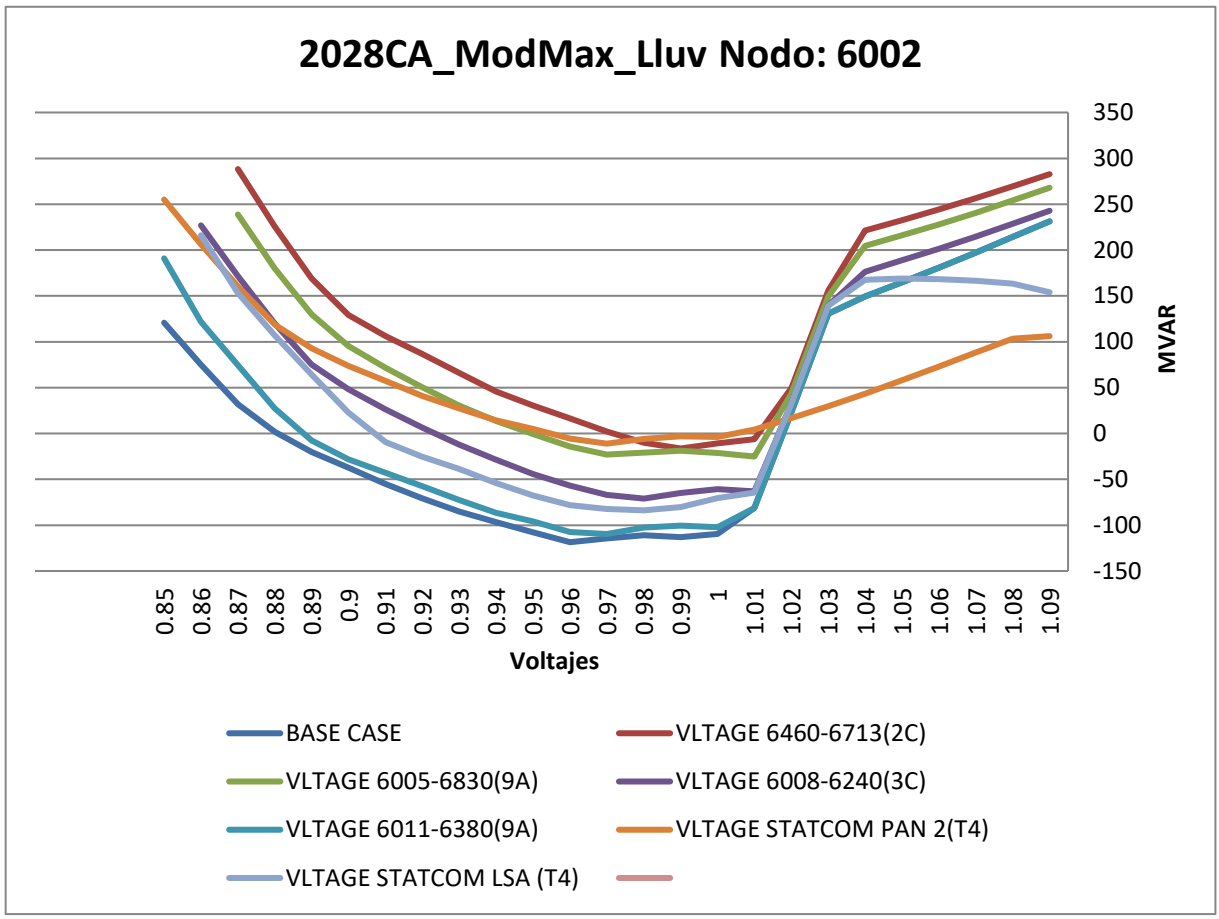
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Voltajes
BASE CASE
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VLTAGE 6005-6830(9A)
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VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/ | LTAGE STATCOM LSA (T4) |
|---|---|---|---|---|---|---|---|
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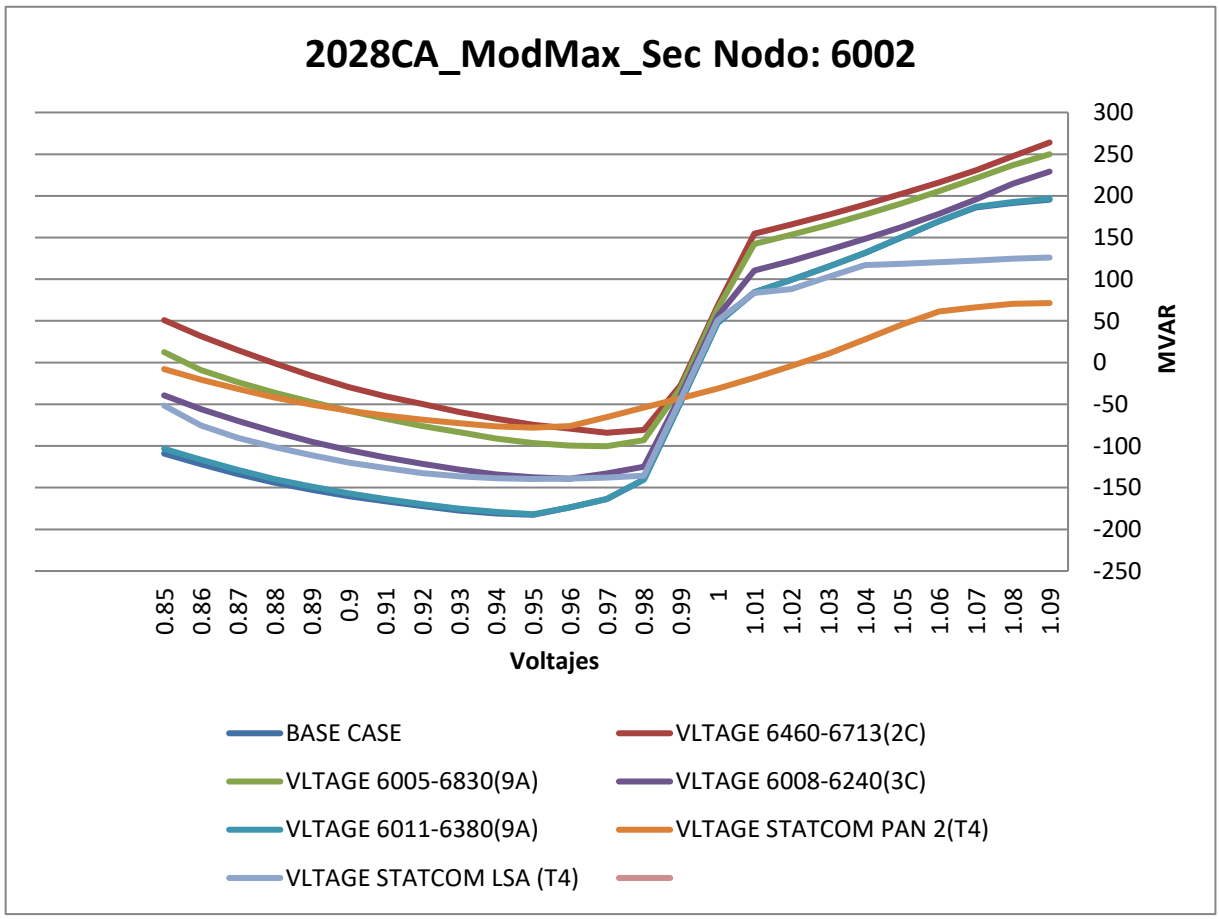
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Voltajes
BASE CASE
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VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
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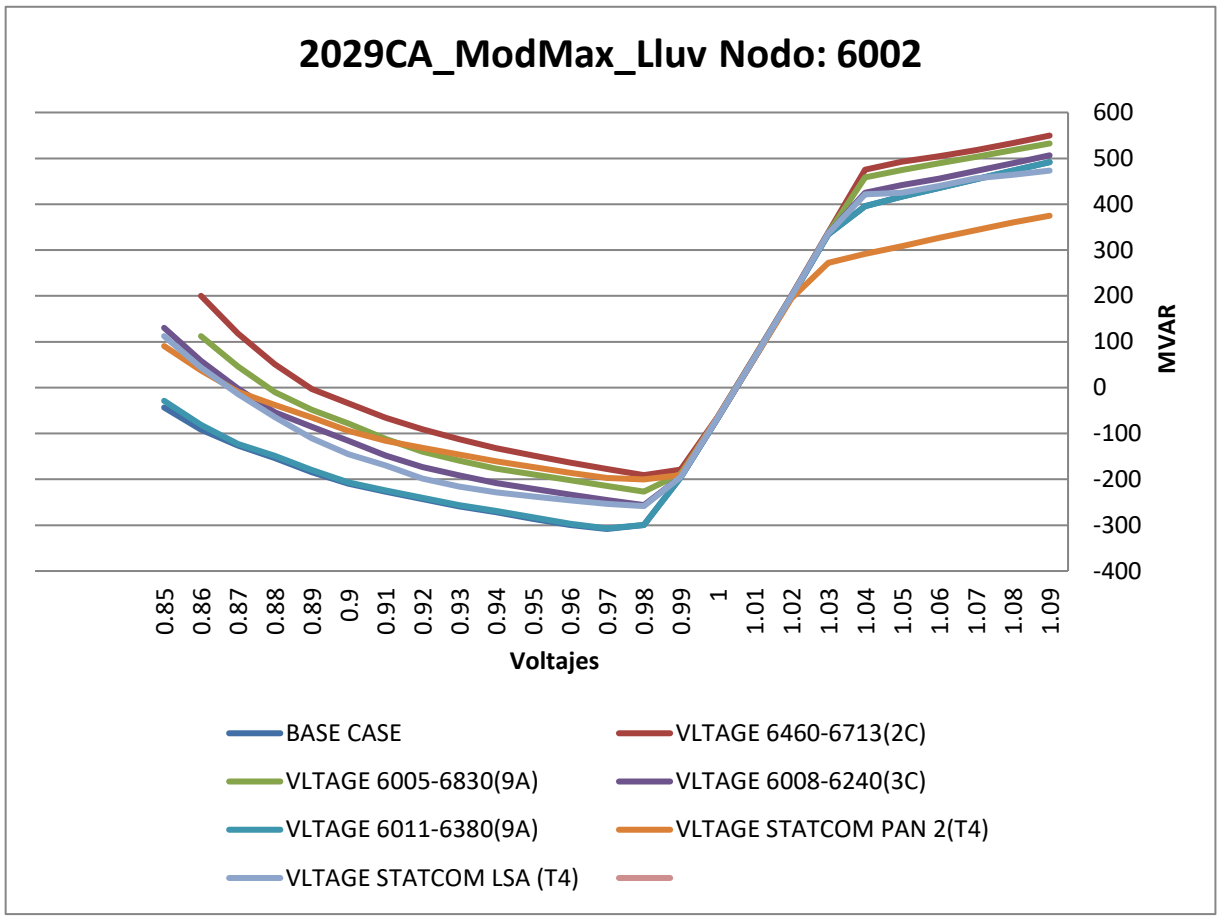
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Voltajes
BASE CASE
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VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
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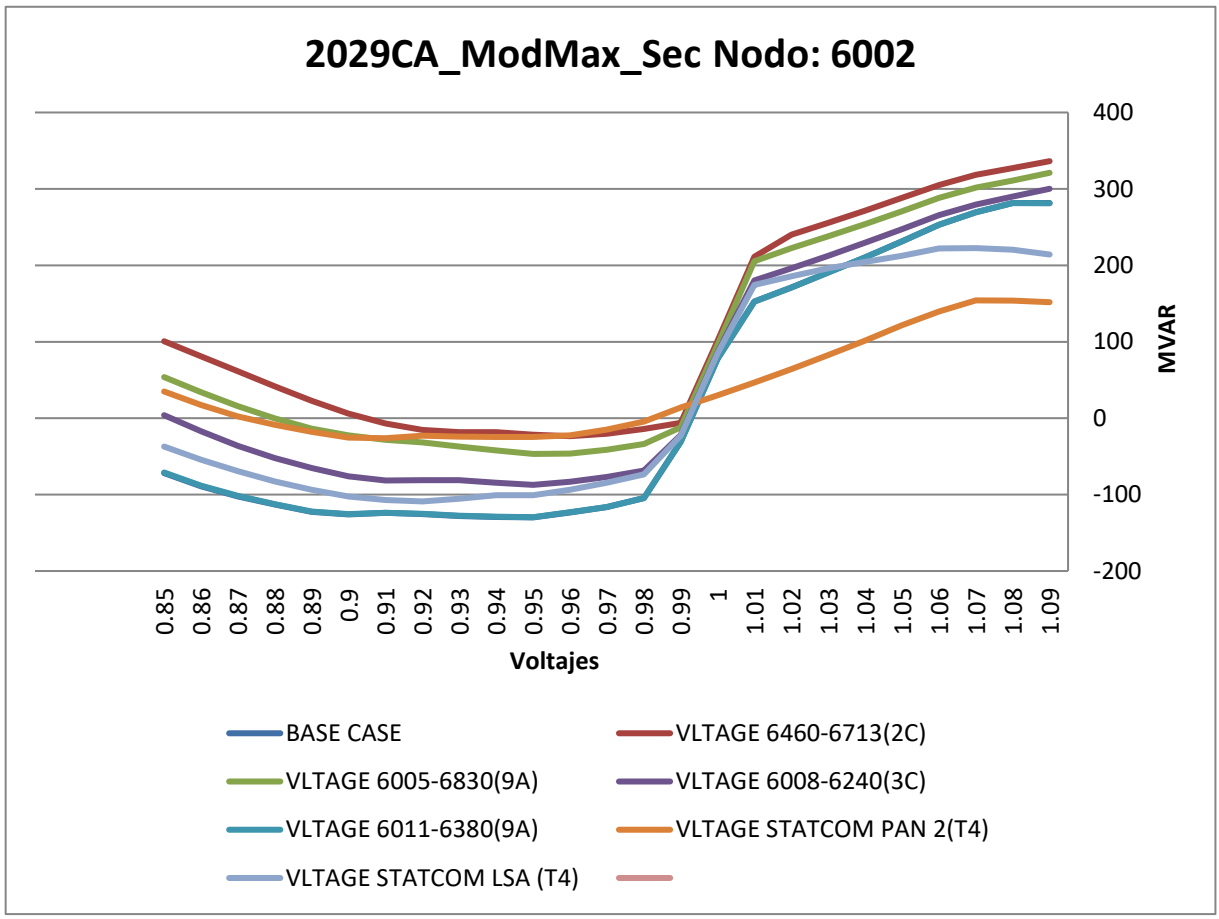
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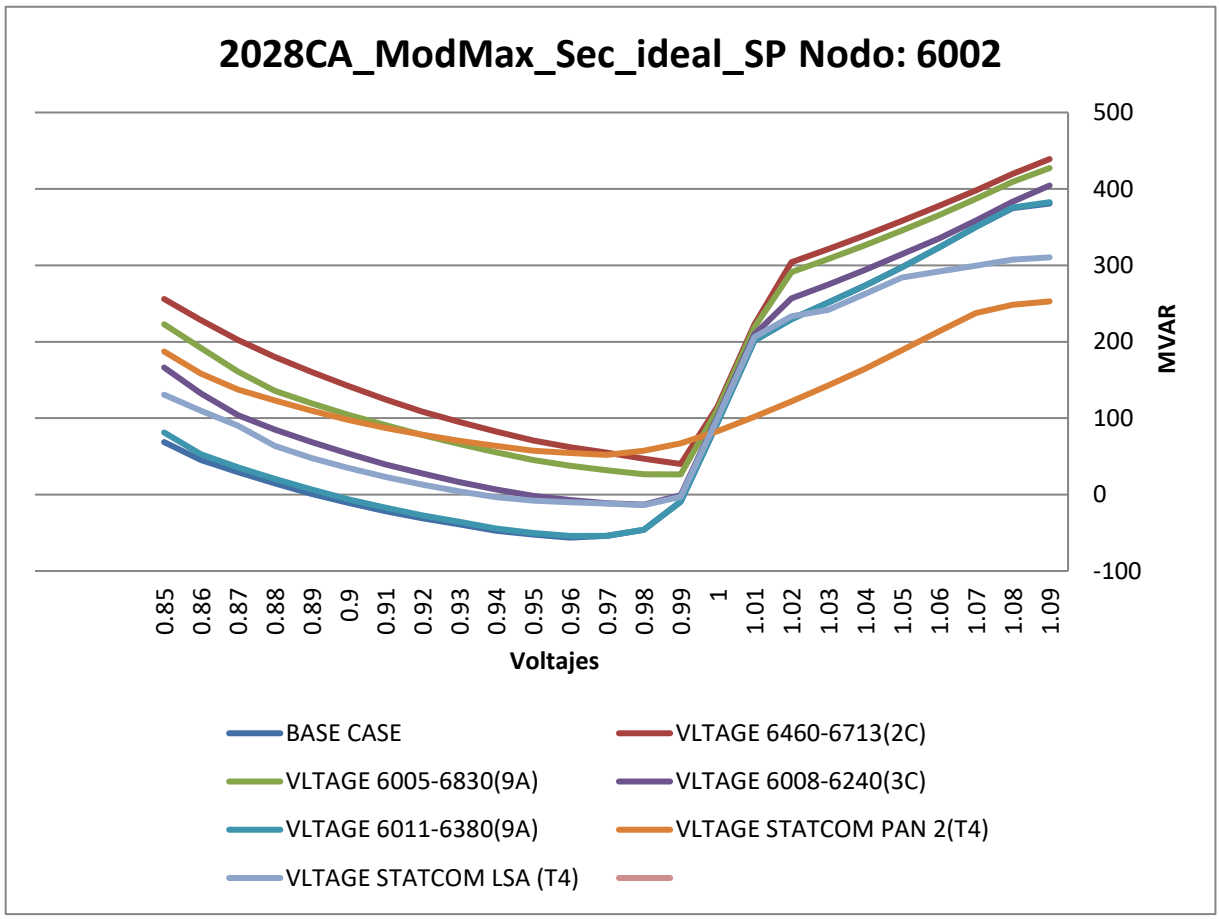
Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
| **6002** | -129.8248596 | -23.55010796 | -46.7879982 | -87.28025818 | -129.5869751 | -26.20919991 | -108.9569244 |

# DESPACHO IDEAL SIN PROYECTO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Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
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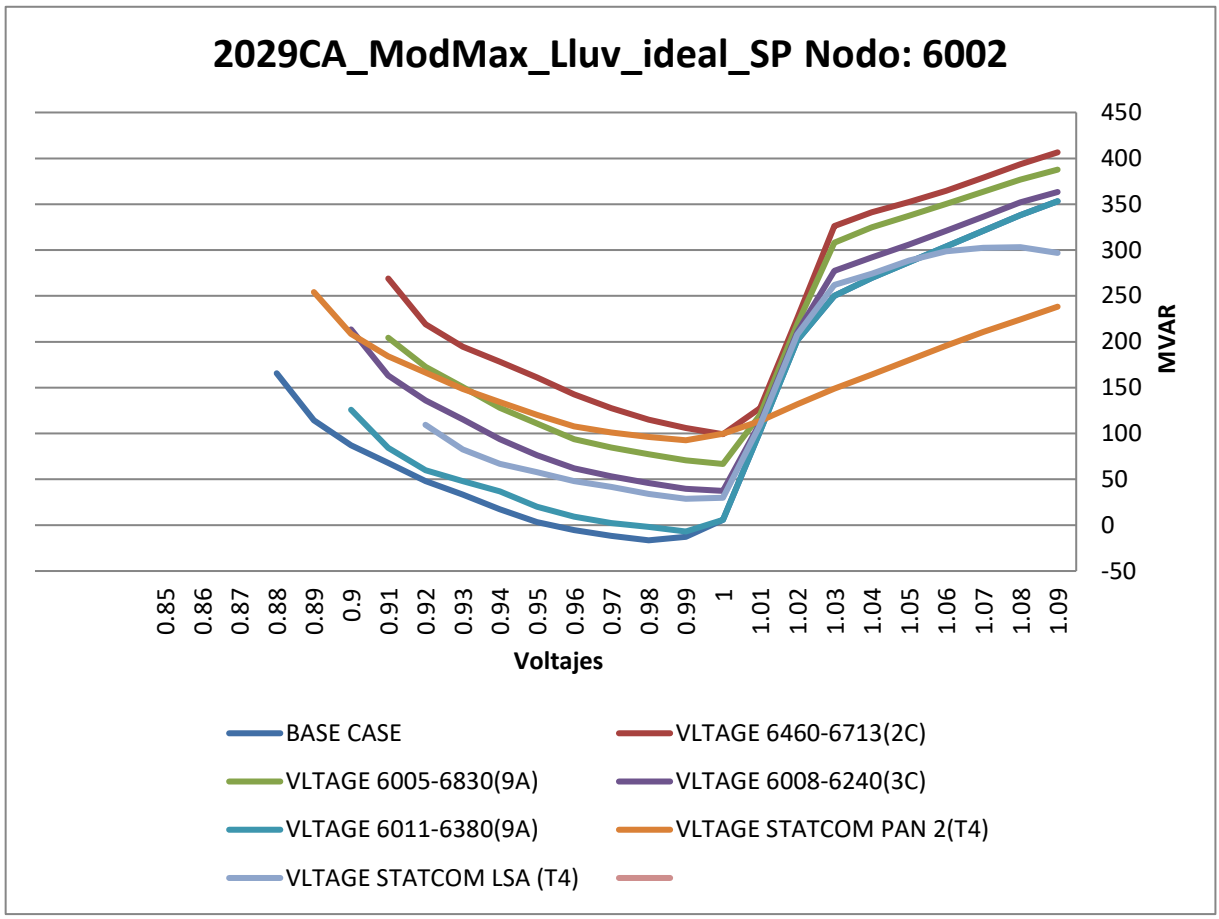
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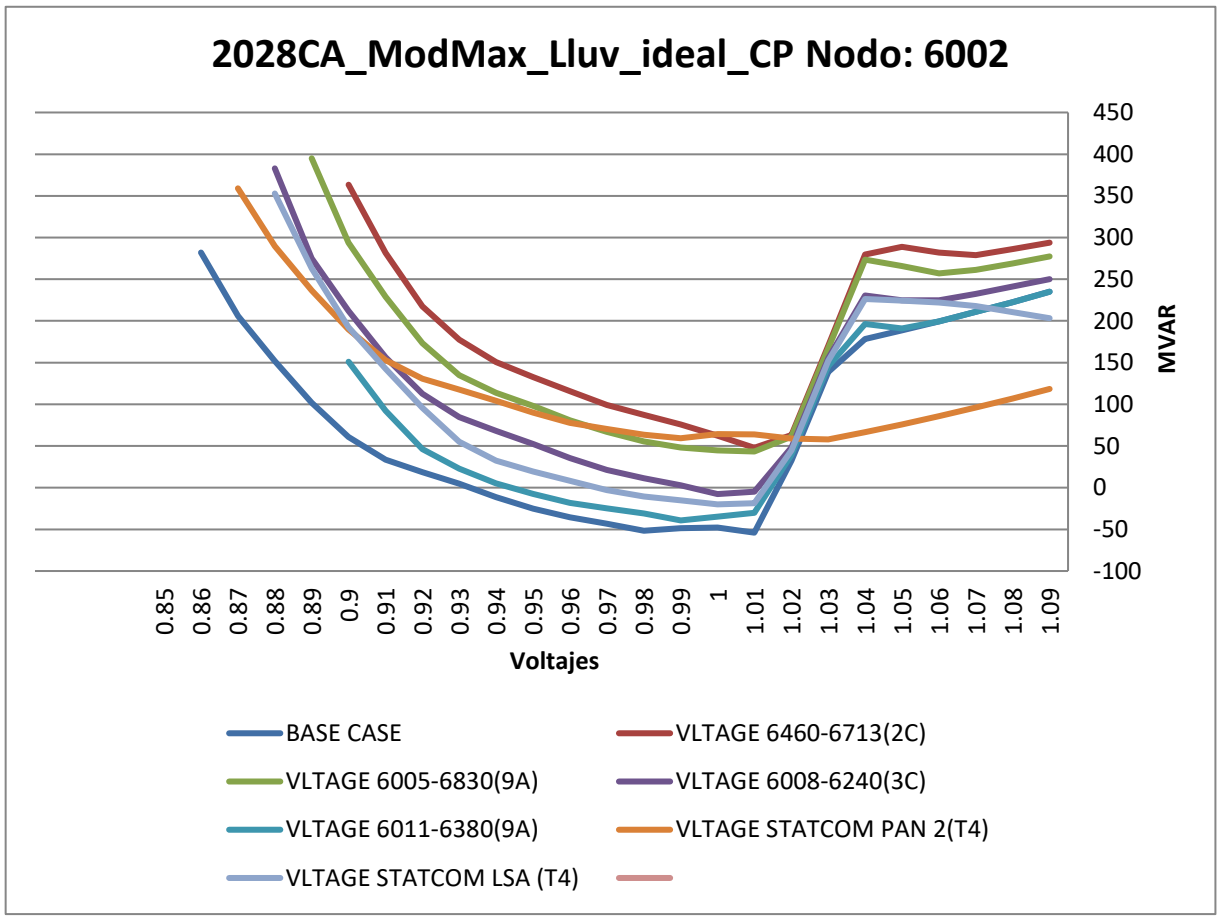
Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
| **6002** | -16.51461792 | 99.18075562 | 66.7053833 | 37.37639618 | -6.925796509 | 92.56427765 | 28.77151299 |

# DESPACHO IDEAL CON PROYECTO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Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
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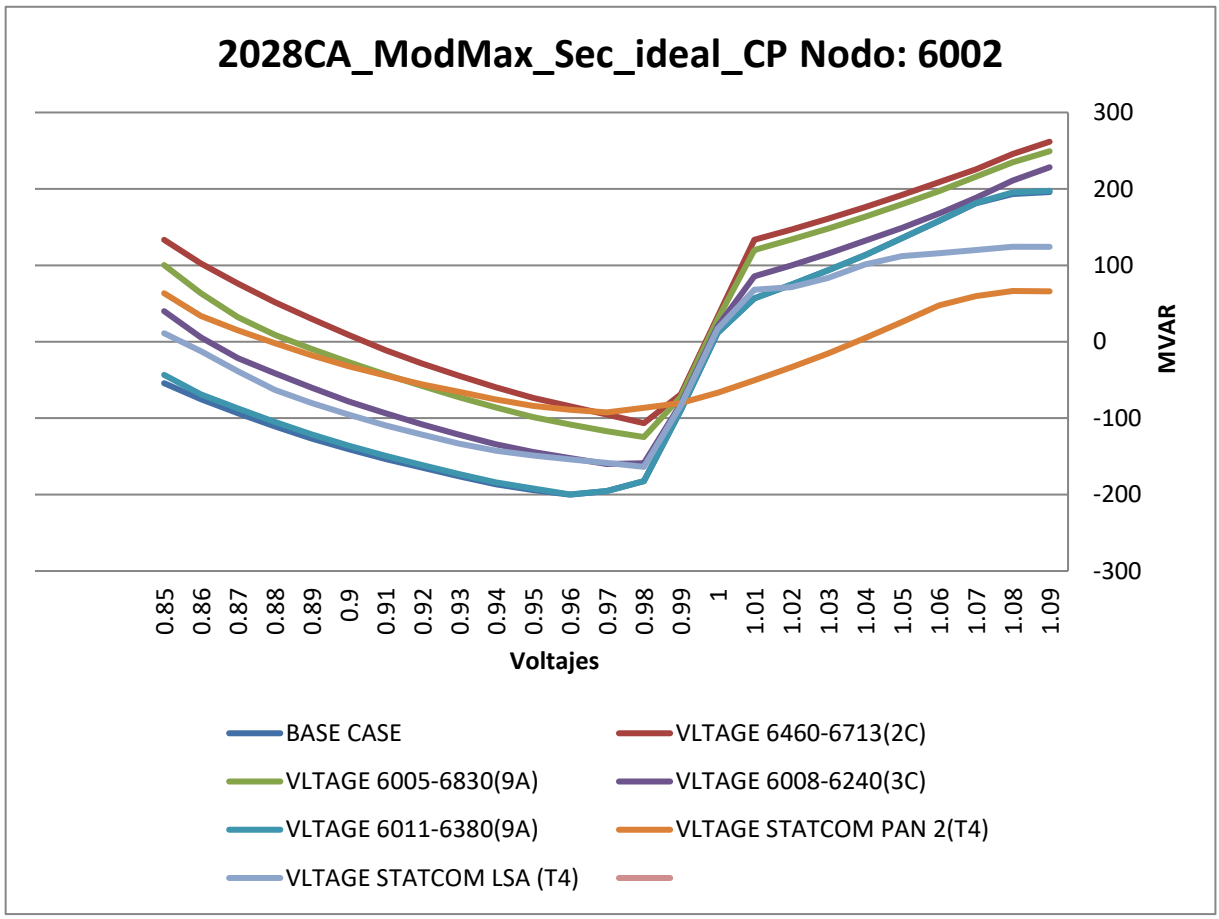
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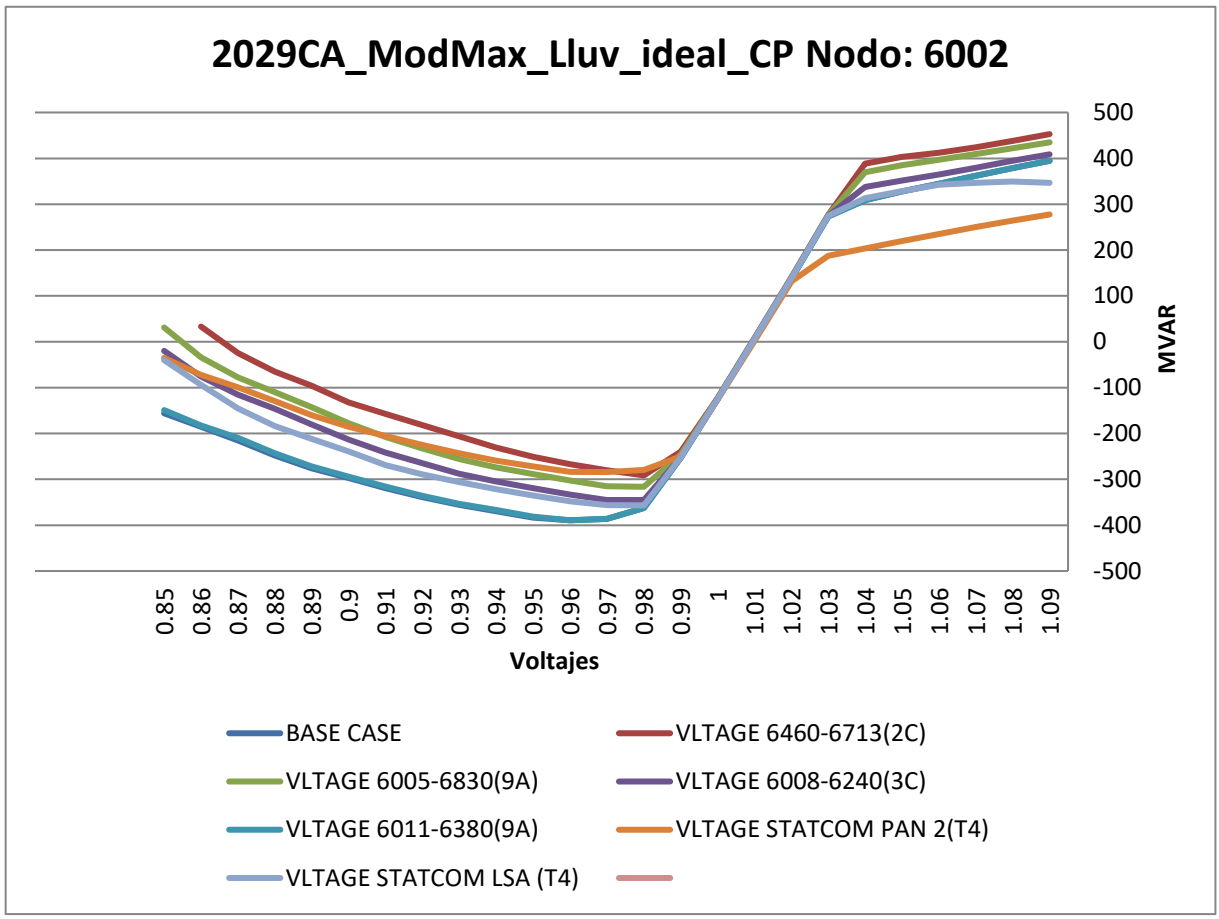
Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
| **6002** | -200.0636292 | -106.5413513 | -124.6816635 | -159.9618835 | -199.7468262 | -92.42694092 | -163.7006073 |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Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
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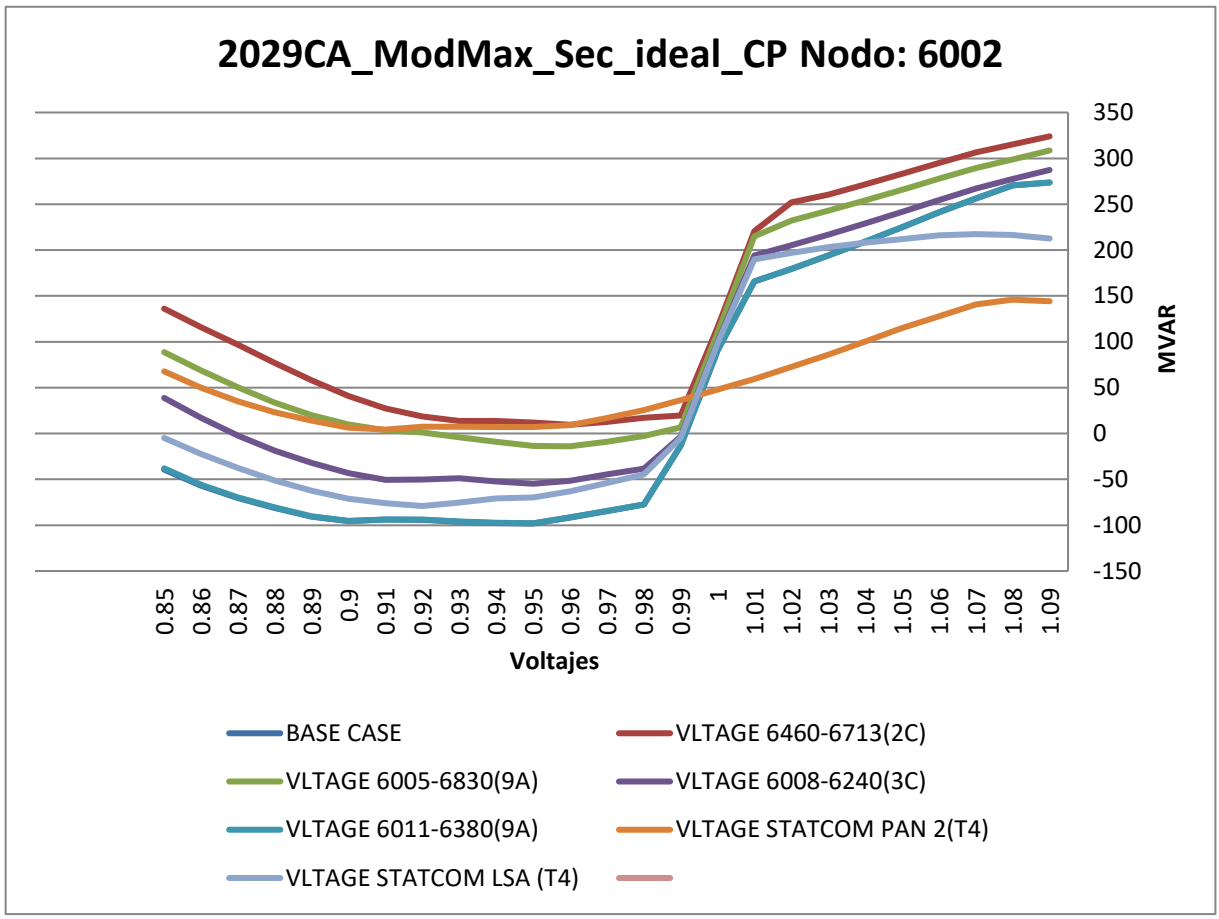
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Voltajes
BASE CASE
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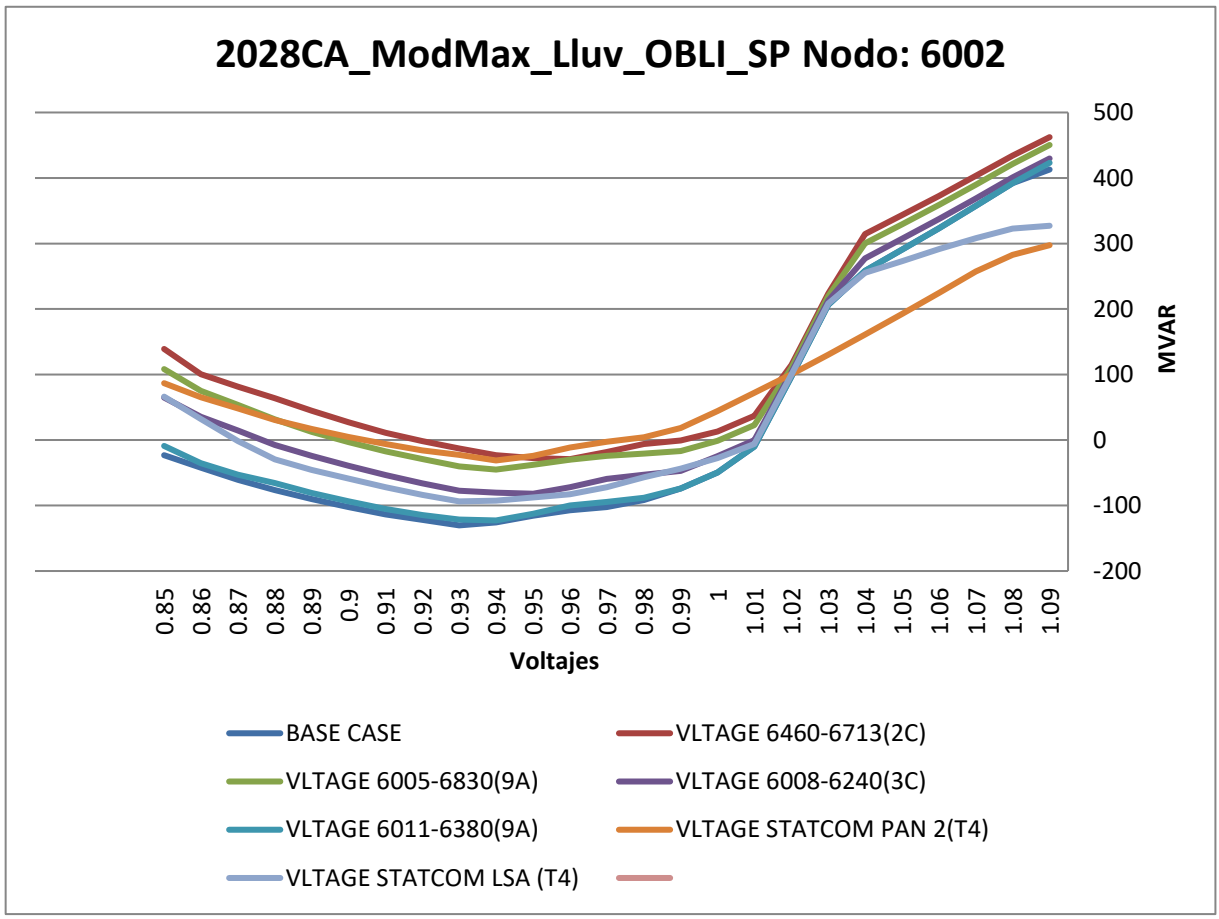
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
| **6002** | -98.20039368 | 9.466398239 | -14.010993 | -54.83932495 | -97.92858124 | 4.230259418 | -79.10998535 |

# DESPACHO OBLIGADO SIN PROYECTO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Voltajes
BASE CASE
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VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
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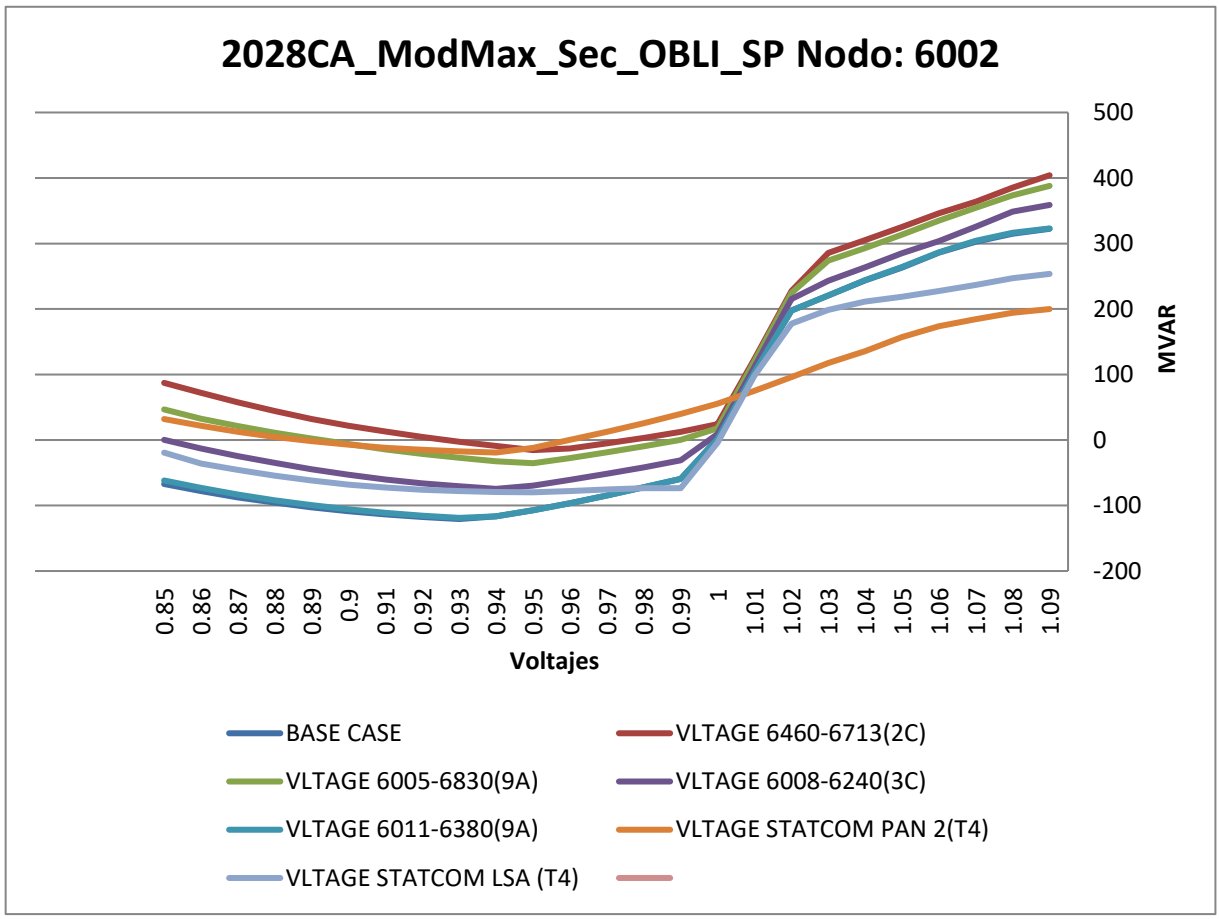
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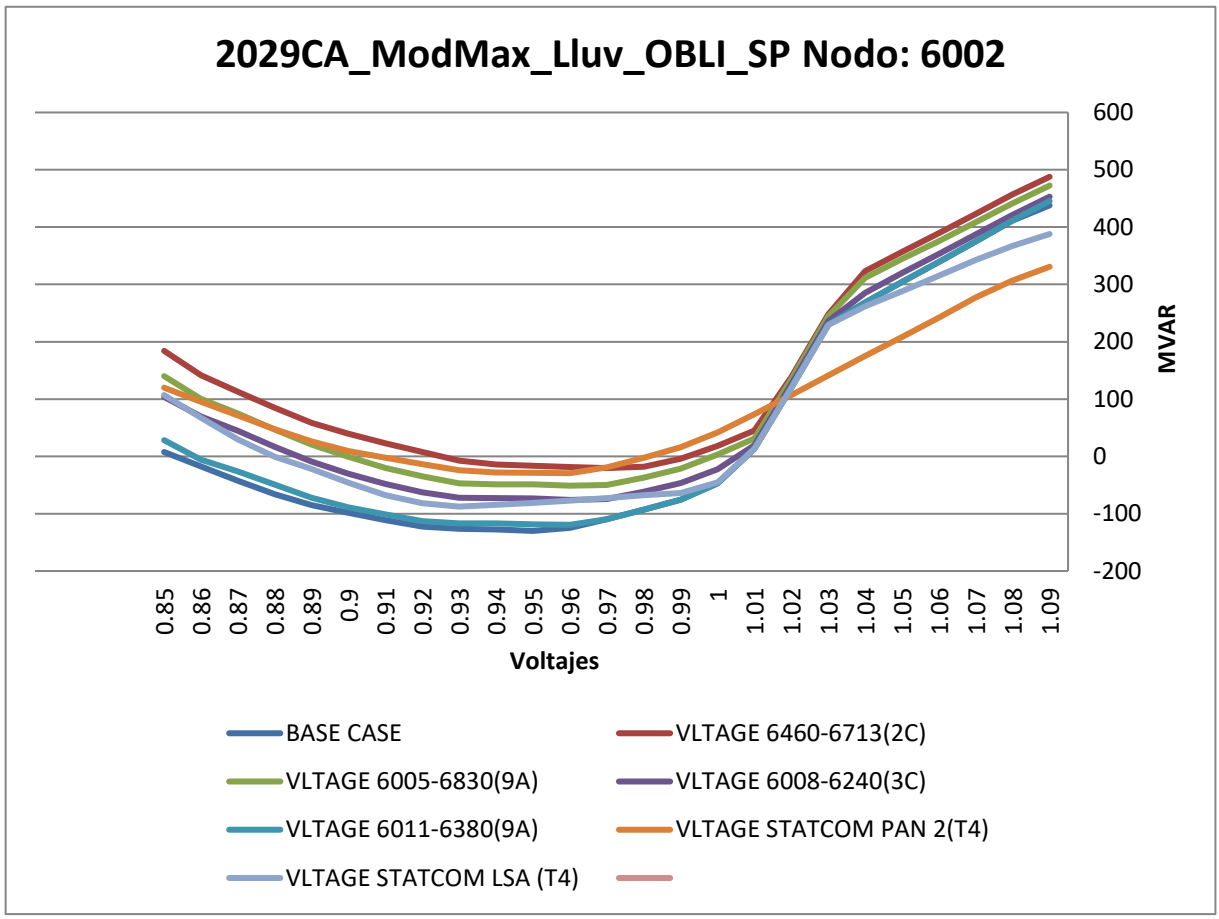
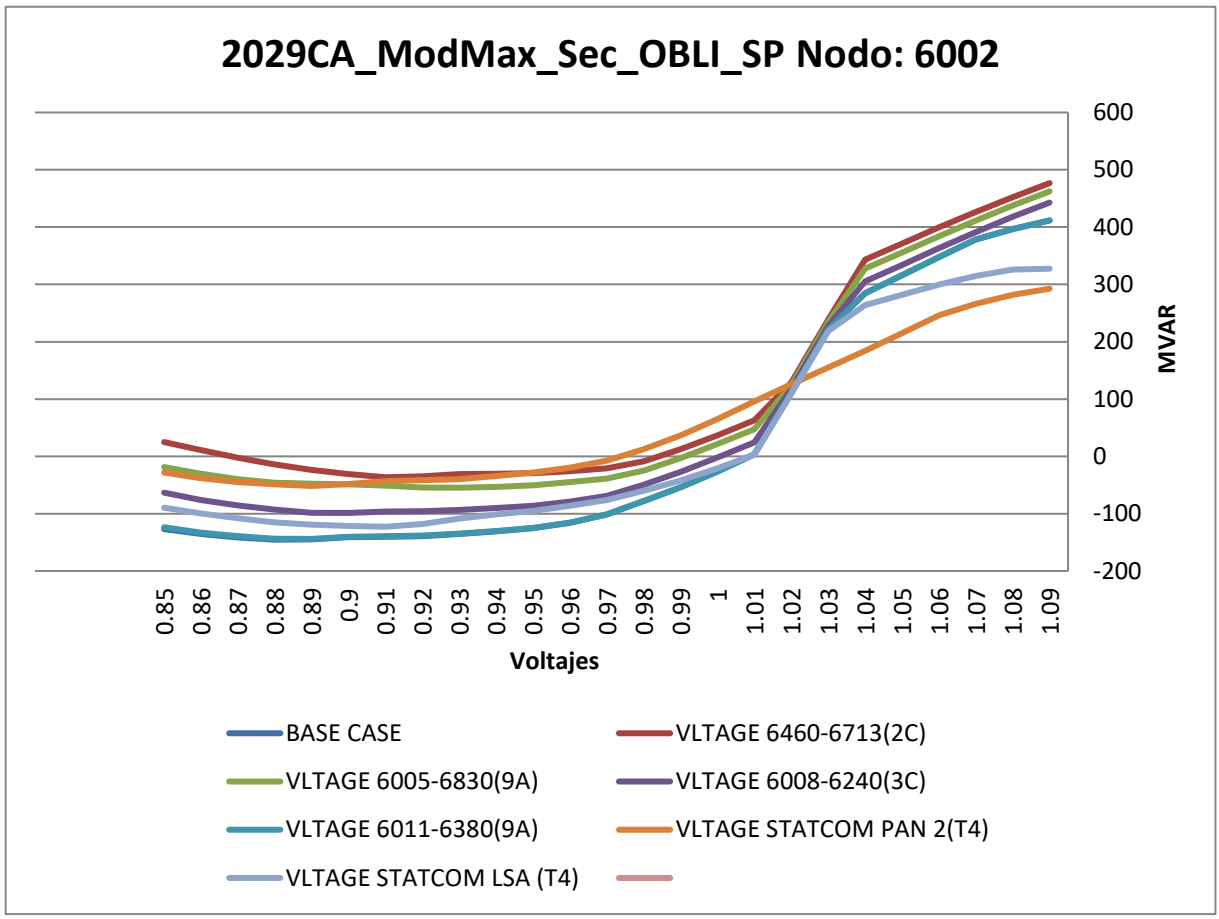
Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
| **6002** | -120.6365967 | -15.37300014 | -35.40192032 | -74.56666565 | -118.8369598 | -19.11961365 | -79.85952759 |


2029CA_ModMax_Lluv_OBLI_SP Nodo: 6002
600
500
400
300
200
100
0
-100
-200
MVAR
0.85
0.86
0.87
0.88
0.89
0.9
0.91
0.92
0.93
0.94
0.95
0.96
0.97
0.98
0.99
1
1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08
1.09
Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
| **6002** | -130.0232697 | -20.38490105 | -51.1510849 | -75.97570801 | -119.3727264 | -29.33160973 | -87.62536621 |


2029CA_ModMax_Sec_OBLI_SP Nodo: 6002
600
500
400
300
200
100
0
-100
-200
MVAR
0.85
0.86
0.87
0.88
0.89
0.9
0.91
0.92
0.93
0.94
0.95
0.96
0.97
0.98
0.99
1
1.01
1.02
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1.04
1.05
1.06
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1.08
1.09
Voltajes
BASE CASE
VLTAGE 6460-6713(2C)
VLTAGE 6005-6830(9A)
VLTAGE 6008-6240(3C)
VLTAGE 6011-6380(9A)
VLTAGE STATCOM PAN 2(T4)
VLTAGE STATCOM LSA (T4)

| NODO | BASE CASE | VLTAGE 6460-6713(2C) | VLTAGE 6005-6830(9A) | VLTAGE 6008-6240(3C) | VLTAGE 6011-6380(9A) | LTAGE STATCOM PAN 2(T4/LTAGE STATCOM LSA (T4) | |
|---|---|---|---|---|---|---|---|
| **6002** | -145.331604 | -36.39174652 | -54.66373444 | -98.68717194 | -143.9303131 | -51.57939148 | -122.7718124 |