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Escola de Engenharia Elétrica, Mecânica e de Computação (EMC)

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Representação Simplificada de um Alimentador de Média Tensão da Região Metropolitana de Goiânia

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UNIVERSIDADE FEDERAL DE GOIÁS
ESCOLA DE ENGENHARIA ELÉTRICA, MECÂNICA E DE COMPUTAÇÃO

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Ian Douglas Jacob de Lima

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ATA DE DEFESA DE TRABALHO DE CONCLUSÃO DE CURSO

Aos 12 (doze) dias do mês de dezembro do ano de 2024 iniciou-se a sessão pública de defesa do Trabalho de Conclusão de Curso (TCC) intitulado “Representação simplificada de um Alimentador de Média Tensão da Região Metropolitana de Goiânia”, de autoria de Guilherme Pereira do Nascimento e Ian Douglas Jacob de Lima, do curso de Engenharia Elétrica, da Escola de Engenharia Elétrica, Mecânica e de Computação da UFG. Os trabalhos foram instalados pelo Prof. Dr. Igor Kopcak - Orientador (EMC/UFG) com a participação dos demais membros da Banca Examinadora: Prof^a. Dr^a. Lina Paola Garces Negrete (EMC/UFG) e Prof. Dr. Gelson Antônio Andrêa Brigatto (EMC/UFG). Após a apresentação, a banca examinadora realizou a arguição dos estudantes. Posteriormente, de forma reservada, a Banca Examinadora atribuiu a nota final de **9,5**, tendo sido o TCC considerado **aprovado**.

Proclamados os resultados, os trabalhos foram encerrados e, para constar, lavrou-se a presente ata que segue assinada pelos Membros da Banca Examinadora.



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Representação Simplificada de um Alimentador de Média Tensão da Região Metropolitana de Goiânia

Guilherme Pereira do Nascimento & Ian Douglas Jacob de Lima

Resumo— Estudos sobre sistemas de energia elétrica, dadas suas dimensões físicas e de potência, bem como sua relevância econômica e social, são conduzidos tipicamente por simulações computacionais, a partir de modelos matemáticos das redes elétricas, geradores, cargas, subestações e demais elementos que os compõem[1][2]. Esta limitação quanto a “testes de bancada” e mesmo em campo, gera a demanda por sistemas teste, representativos de redes reais, para as simulações computacionais que possam subsidiar os mais diversos tipos de análise[3]. Nesse sentido, historicamente tem-se lançado mão de sistemas teste considerados como referência (*benchmarks*). Conforme o objetivo ou fenômeno que se deseje analisar, há sistemas de teste reduzidos específicos, cujos modelos matemáticos sejam mais apropriados para permitir o foco em estudos visando planejamento da operação, a estabilidade do sistema e a segurança de proteção das redes, dentre outras possibilidades. Nesse trabalho elaborou-se um equivalente reduzido de uma rede de energia elétrica que atende a região metropolitana de Goiânia, a partir de dados disponibilizados na literatura, bem como aqueles requisitados da concessionária de energia local, sendo representativos do comportamento dinâmico dessa pequena porção do SIN.

Palavras-chave—OpenDSS, Redução de Redes, BDGD, Fluxo de Carga, Python

Abstract— *Studies on electric power systems, given its physical dimensions and power ratings, as well as its economic and social relevance, are typically conducted through computational simulations based on mathematical models of electrical grids, generators, loads, substations, and other components. The limitations regarding “bench testing” and even field testing create a demand for test systems that represent real networks for computational simulations, which can support various types of analysis. In this regard, benchmark test systems have historically been used as reference models. Depending on the objective or phenomenon to be analyzed, there are specific reduced test systems whose mathematical models are more appropriate for focusing on studies related to operational planning, system stability, and network protection security, among other possibilities. This paper develops a reduced equivalent of an electrical grid that serves the metropolitan area of Goiânia, based on data available in the literature as well as data requested from the local utility company, and it is representative of the dynamic behavior of this small portion of the National Interconnected System (SIN).*

Index Terms—OpenDSS, Networks Reduction, BDGD, Power Flow, Python

I. INTRODUÇÃO

NO contexto de Sistemas Elétricos de Potência (SEPs), a redução de grandes redes elétricas é de suma importância para a análise e solução de circuitos elétricos, facilitando a

resolução de problemas de engenharia. O número de equações requeridas para a resolução de um circuito é equivalente à quantidade de barras presentes no mesmo. Sob essa perspectiva, a redução do número de barras em um circuito resulta em um ganho computacional significativo, além de tornar a rede mais palatável para fins didáticos, na medida em que as tensões nodais correspondentes a esses pontos não são relevantes para o estudo em questão.

Diversas ferramentas para a simplificação de circuitos elétricos estão vastamente presentes na literatura, incluindo a equivalência série/paralelo, a conversão estrela-triângulo, a redução de Kron, bem como os equivalentes de Thévenin e Norton. Embora essas técnicas apresentem abordagens distintas, todas fundamentam-se no mesmo princípio: a simplificação de um circuito de forma a preservar as características observadas no circuito original. Nesse sentido, este trabalho tem como objetivo analisar dados de um alimentador de média tensão da Região Metropolitana de Goiânia, buscando compreender suas particularidades em relação à construção da rede, aos equipamentos conectados e ao perfil de consumo de energia de suas cargas. A compilação desses dados possibilita a simplificação da rede, por meio da eliminação de nós passivos (sem fontes, cargas, ou derivações), cujas tensões não são de interesse direto. Essa abordagem torna o sistema mais compacto, viabilizando análises acadêmicas.

A rede escolhida para os estudos deste trabalho foi o Alimentador 5, localizado na Subestação Meia Ponte, situada na região noroeste da capital de Goiás, cuja topologia é ilustrada pela Figura 1. Embora a Subestação Meia Ponte atenda cargas massivas e com características bastante peculiares, como a Estação de Tratamento de Esgoto Dr. Hélio Seixo de Britto, que apresenta consumos energético proveniente basicamente de motores associados às bombas hidráulicas e compressores necessários para a operação da instalação, o Alimentador 5 atende majoritariamente cargas de caráter residencial e comercial, além de cargas de iluminação pública, tal que grande parte dos seus consumidores é conectada em baixa tensão, no padrão de 380 V trifásico.

II. FUNDAMENTAÇÃO TEÓRICA

A. Base de Dados Geográfica da Distribuidora

A Base de Dados Geográfica da Distribuidora (BDGD) faz parte do Sistema de Informação Geográfica Regulatório (SIG-R), conforme definido pelo PRODIST[4] da ANEEL. Sua criação visa padronizar e centralizar as informações geográficas, técnicas e operacionais das distribuidoras, assegurando que a ANEEL possa fiscalizar e regular eficientemente o

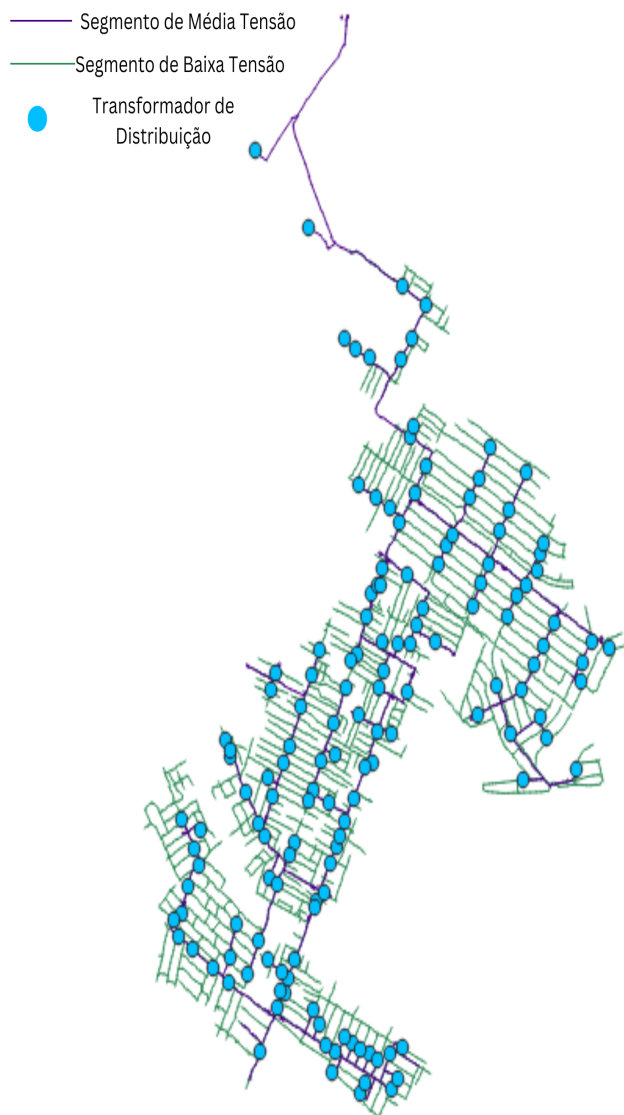


Figura 1. Diagrama unifilar do Alimentador 5, Subestação Meia Ponte, Goiânia. Fonte: Próprio autor.

setor de distribuição elétrica. A BDGD permite que a ANEEL receba informações consistentes sobre o traçado de redes, localização de consumidores e ativos, facilitando a supervisão e garantindo a continuidade do fornecimento com qualidade.

A implementação da BDGD também se justifica pela necessidade de melhorar a transparência e a interoperabilidade entre as distribuidoras e os órgãos reguladores. A base reúne dados sobre aspectos técnicos e comerciais, oferecendo uma visão detalhada das operações e infraestrutura elétrica. Essa integração permite que a ANEEL e outros agentes possam monitorar o desempenho e a segurança dos sistemas, identificar perdas e inconsistências, e assegurar que todas as regiões atendidas recebam energia com qualidade e eficiência.

O modelo de dados da BDGD visa estabelecer uma lista de entidades geográficas e não geográficas que representam diferentes componentes e funcionalidades da infraestrutura de distribuição de energia. Essas entidades refletem a integração entre aspectos físicos e operacionais da rede elétrica. O conceito de entidade na BDGD inclui não apenas os elementos diretamente visíveis no território (como subestações e linhas), mas também registros técnicos necessários para controle e operação eficiente da rede[5].

As entidades geográficas possuem uma representação espacial definida por coordenadas, que são as representações espaciais daquele conjunto de informações e representam elementos como subestações, unidades consumidoras e segmentos da rede de alta, média e baixa tensão. Já as entidades não geográficas não possuem posicionamento espacial, mas são essenciais para o gerenciamento da infraestrutura. Elas incluem registros operacionais, técnicos e patrimoniais, e estão associados às unidades componentes das entidades geográficas.

A atual versão do Modelo de Dados da BDGD (V1.1) é composta por 23 Entidades Geográficas e 20 Entidades Não Geográficas, dentre as quais são listadas a seguir as de maior relevância para este trabalho.

Entidades geográficas:

- Unidade Consumidora de Baixa Tensão (UCBT): Representa a localização da unidade consumidora com fornecimento em baixa tensão existente.
- Unidade Consumidora de Média Tensão (UCMT): Representa a localização da unidade consumidora com fornecimento em média tensão existente.
- Segmento do Sistema de Distribuição de Baixa Tensão (SSDBT): Representa o traçado de um segmento de rede de distribuição em nível de baixa tensão entre duas estruturas de suporte da rede.
- Segmento do Sistema de Distribuição de Média Tensão (SSDMT): Representa o traçado de um segmento de rede de distribuição em média de baixa tensão entre duas estruturas de suporte da rede.
- Unidade Seccionadora de Média Tensão (UNSEMT): Representa a localização de uma unidade seccionadora instalada na rede de distribuição em nível de média tensão.
- Unidade Transformadora de Média Tensão (UNTRMT): Representa a localização de uma unidade de transformação em média tensão instalada no sistema de distribuição.

Entidades não geográficas:

- Ramal de Ligação (RAMLIG): Representa um ramal de ligação de um usuário.
- Circuito de Média Tensão (CTMT): Representa um circuito de média tensão existente no sistema de distribuição.
- Segmento Condutor (SEGCON): Representa um arranjo de condutores de um trecho de rede existente no sistema de distribuição.
- Ponto de Iluminação Pública (PIP): Representa a informação de um ponto de iluminação pública existente

no sistema de distribuição.

- Curva de Carga (CRVCRG): Representa um perfil da curva de carga de uma determinada tipologia de consumo.

B. OpenDSS

Existem vários *softwares* disponíveis no mercado, apresentando vantagens e desvantagens quanto aos estudos de Fluxo de Carga de redes de distribuição. Para este trabalho foi adotado o uso do *OpenDSS* (*Open Distribution System Simulator*), desenvolvido pela EPRI (*Electric Power Research Institute*), pois mesmo que seja um *software* que não conta com edição gráfica por meio de diagrama unifilar, é um programa de código aberto e possui um robusto pacote de ferramentas e modelos para solução de sistemas elétricos em regime permanente, desde o simples fluxo de carga até análise de sistemas com cargas não lineares, curto-circuito e etc. Além do mais, o *OpenDSS* possui compatibilidade com outros programas via porta COM (*Component Object Model*), permitindo interface com linguagens de programação tais quais MATLAB, Python, C e C++.

O software ganhou notoriedade no Brasil em 2014, quando a ANEEL publicou a Nota Técnica nº 0057/2014[6] promovendo o uso do *OpenDSS* como mecanismo para aprimoramento do método de cálculo de perdas na distribuição, aplicável às distribuidoras de serviço público de energia elétrica no processo de Revisão Tarifária Periódica – RTP. Para conversão dos dados da BDGD, a ANEEL faz uso do software ProgGeoPerdas, que, extrai os dados presentes nas tabelas da BDGD e altera para o padrão de leitura do *OpenDSS*, formato *.dss*.

O *OpenDSS* divide os elementos presentes no circuito de acordo com sua “funcionalidade” em termos de transmissão ou conversão de potência, isto é:

- Elementos de Entrega de Potência (*Power Deliver*) – Elementos que estão conectados entre duas barras e não têm por finalidade gerar/consumir potência ativa ou reativa, como por exemplo transformadores e linhas de transmissão;
- Elementos de Conversão de Potência (*Power Conversion*) – Elementos que fazem conversão de energia, como por exemplo, geradores e cargas.

É importante notar, também, que o *OpenDSS* faz distinção entre os termos “nó” e “barra”, os quais, no contexto de engenharia elétrica, são muitas vezes utilizados como sinônimos. O termo “barra” refere-se a um barramento propriamente dito, ou seja, um elemento destinado à conexão de outros dispositivos. Enquanto “nó” refere-se a um ponto de conexão elétrica, como entendido na teoria de circuitos elétricos. Em outras palavras, a “barra” é o elemento da rede que contém os “nós” elétricos. Considerando-se que o programa permite a modelagem trifásica da rede, uma barra poderá conter vários nós.

Por exemplo: um transformador trifásico de distribuição, com a conexão típica $\Delta - Y$ terá uma barra no lado Δ com 3 nós (um para cada fase), enquanto o lado Y (sendo uma estrela aterrada) terá 4 nós (sendo os nós elétricos de cada fase e do neutro).

Dentre as ferramentas de modelagem no *OpenDSS* alguns elementos se destacam, seja por sua relevância ou por sua recorrência na modelagem do sistema, e merecem uma descrição mais detalhada.

1) *Cargas*: Um dos principais aspectos em problemas de fluxo de potência é a modelagem da carga. Dentro do *OpenDSS* as cargas podem ser modeladas de diversas maneiras, embora este trabalho se atenha somente a duas modelagens: impedância constante e potência constante, conforme estabelecido pela ANEEL[7]. Cada carga deve estar conectada a uma única barra e devem ser especificadas a curva de carga do elemento, quantidade de fases conectadas, tipo de conexão, potência requerida da rede e fator de potência. Embora a potência requerida pela carga deva ser declarada no momento em que a mesma é instanciada, isso não significa que ela consome tal potência, por exemplo, durante as 24 horas do dia. Esse consumo está diretamente atrelado ao perfil desta carga (*LoadShape*) e será discutido com devida atenção em seções subsequentes.

2) *Linhas*: Dentro do *OpenDSS* o elementos *Line* são de importância fundamental, visto que não modelam apenas os segmentos de rede de transmissão em média tensão, mas também modelam segmentos de baixa tensão, ramais de conexão e chaves de média tensão.

Para a criação de um ramo usado como segmento de linha (válido para segmentos de baixa tensão, média tensão e ramais) é necessário declarar o nome da linha, quantidade de fases, a barra inicial e barra final às quais o segmento será conectado, comprimento (e unidades do comprimento), frequência da rede, resistência e reatância de sequência positiva. Alternativamente à declaração de resistência e reatância, pode-se utilizar um arquivo auxiliar, chamado *LineCode*, com esses parâmetros elétricos.

3) *Transformadores*: O transformador é peça fundamental de qualquer sistema de potência. Dentro do *OpenDSS* é possível criar tanto transformadores monofásicos, quanto transformadores trifásicos e, para tanto, é necessário que sejam informados o número de fases, barras a serem conectadas, tensão nominal de cada barra, quantidade e conexão dos enrolamentos, potência nominal, perdas a vazio e perdas em carga.

4) *Reatores*: Em casos onde existam transformadores cujo algum dos enrolamentos esteja conectado em Y é necessário que haja um reator entre o terminal comum da conexão Y e o potencial de referência[7]. Este elemento deve ser declarado informando a barra de conexão, valor de impedância e frequência de operação

5) *Medidores de Energia*: Os medidores de energia funcionam basicamente como elementos integradores. São conectados ao terminal de algum elemento e possuem a capacidade de calcular a energia (ativa e reativa) acumulada ao longo do intervalo de tempo da simulação, perdas associadas e sobrecarga, a partir de definições informadas durante a declaração do medidor.

6) *Monitores*: De maneira semelhante aos Medidores de Energia, os Monitores servem para se observar o fluxo de potência em determinado elemento ao qual estão conectados.

Diferentemente dos medidores, não acumulam valores no tempo e são úteis apenas para se monitorar fluxos de potência em simulações do tipo *Time Series*.

7) *PVSystem*: O elemento é utilizado para modelar sistemas fotovoltaicos conectados à rede, permitindo simular a geração de energia elétrica. Para sua configuração, devem ser informados parâmetros como a barra de conexão, potência nominal do sistema, tensão operacional, curva de irradiação, e perfil de temperatura, além de ajustes para modos de operação como *Snapshot* e *Daily mode*.

C. PYTHON

Python é uma linguagem de programação de alto nível, versátil, amplamente utilizada em análise de dados devido à sua vasta biblioteca de ferramentas e recursos para manipulação, visualização e modelagem de dados. Para nossas análises, as bibliotecas mais empregadas foram *Pandas* e *Py-dss-interface*.

O *Pandas* se caracteriza por ser uma biblioteca fundamental para análise de dados, oferecendo estruturas como *DataFrames*, que facilitam o manuseio de tabelas de dados, além de fornecer funcionalidades para leitura de diferentes formatos de arquivos (CSV, Excel, SQL, etc.) e para a realização de operações estatísticas e transformações de dados.

Por outro lado, o *Py-dss-interface* tem como principal objetivo realizar uma ponte entre a linguagem de programação *Python* e o *OpenDSS*, permitindo o uso de algoritmos comuns em ambientes de programação aliados ao uso do *DSS* como motor de cálculo, fazendo uso das suas ferramentas para resolução de fluxo de carga, análise de harmônicas, estudo de perdas e etc.

III. METODOLOGIA

Os arquivos em questão foram retirados dos dados presentes na BDGD, formatados para *OpenDSS* por meio dos *softwares* GeoPerdas e ProgGeoperdas da ANEEL. O Alimentador 5 da SE Meia Ponte se caracteriza por ser um alimentador trifásico, de tensão nominal 13,8 kV, composto por cargas majoritariamente residenciais, cujas barras georreferenciadas podem ser vistas na Figura 1. Este alimentador, com dados extraídos da BDGD, conta com:

- 100.541 Dispositivos conectados
- 21.018 Barras
- 53.131 Nós

Dentre os diversos cenários de simulação disponibilizados, optou-se por escolher um caso de dia útil, tendo em vista que é uma das situações de operação mais recorrentes e de maiores demandas.

Durante as 24 horas de simulação, se observou um consumo de 124,421 MWh e 63,076 Mvarh.

Durante o estudo do alimentador foi possível notar a topologia da rede sendo constituída, basicamente, de:

- Uma fonte, representando seu ponto de conexão ao barramento de saída da subestação;
- Segmentos de Rede de média e baixa tensão;
- Transformadores de distribuição, posicionados ao longo da rede;

- Ramais para conexão das cargas de baixa tensão;
- Cargas.

Para auxiliar no entendimento dos procedimentos adotados na simplificação da rede, apresentados nas próximas seções, a topologia do circuito, conforme a modelagem padrão do *OpenDSS*, é ilustrada na Figura 2. Na qual V_{circuit} representa a tensão na saída da subestação, SMT são os segmentos de média tensão, SBT são os segmentos de baixa tensão, TRF são transformadores, RMBT são os ramais de entrada dos consumidores de baixa tensão, UCMT e UCBT são, respectivamente, unidades consumidoras de média e baixa tensão, representadas por suas demandas de potência.

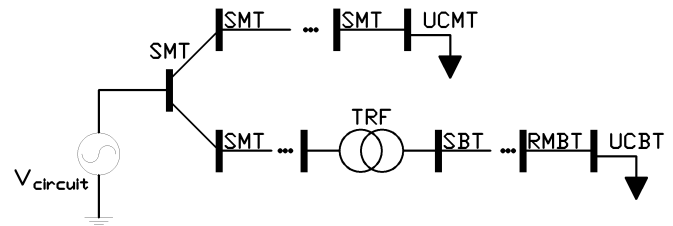


Figura 2. Exemplo da Topologia do Circuito. Fonte: Próprio autor.

As cargas são conectadas aos segmentos de rede por meio dos seus ramais. Segmentos de rede são conectados uns aos outros formando a rede de distribuição (média ou baixa tensão). Entre dois segmentos de rede podem existir chaves seccionadoras (média ou baixa tensão). Observe-se que o Alimentador 5 obedece uma topologia de circuito radial, o que simplifica a análise, pois uma carga só é alimentada por um único ramo.

Para simulações do tipo temporal, é de suma importância que na declaração dos objetos da classe “Carga” seja informado o perfil de consumo de potência da UCBT ao longo do dia (*LoadShape*). No sistema original são definidos 15 tipos de *LoadShape*, com a finalidade de tornar o sistema mais próximo do comportamento real de uma rede de distribuição.

Inicialmente a filosofia de redução foi pensar na barra à qual cada carga está conectada e movê-la para a barra conectada ao seu respectivo transformador de distribuição. Desta maneira seria possível ter diversas cargas conectadas ao seu respectivo transformador, eliminando as barras dos segmentos de baixa tensão e mantendo-se apenas barras de carga e ramais, além de preservar seu *LoadShape* original. Embora não seja possível saber de maneira direta pelas informações contidas no DSS qual transformador alimenta cada unidade consumidora, essa informação pode ser acessada na BDGD. Infelizmente essa filosofia se mostrou infrutífera pelo fato do preenchimento de dados da BDGD não estar formatado de maneira adequada no que diz respeito à nomenclatura das unidades consumidoras.

A principal premissa adotada para a redução do alimentador foi manter constante a energia consumida ao longo das 24 horas de simulação, com o objetivo de reduzir o número de barras e, conseqüentemente, o número de dispositivos conectados ao sistema. Essa abordagem considera que o *OpenDSS* modela as linhas de distribuição como elementos do tipo *Line*. Para alcançar esse objetivo, foi adotada a conversão de todas as cargas, que anteriormente podiam ser trifásicas, bifásicas ou

monofásicas, para cargas trifásicas equilibradas com objetivo de simplificar a análise do circuito.

Para tanto, foram alocados elementos monitores e medidores, com o objetivo de coletar informações sobre os níveis de tensão e corrente durante as simulações. Para ilustrar os dados obtidos, foram selecionados arbitrariamente três transformadores de distribuição, conforme mostrado na Figura 6, para a comparação dos dados de tensão e potência antes e após a redução. A análise comparativa pode ser consultada na Seção IV.

A redução foi dividida por meio da classe de tensão: ramos de baixa tensão e média tensão. Essa divisão se faz útil pelo fato de terem sido adotadas filosofias de redução diferentes.

Para a redução dos ramos de baixa tensão foram observadas especificamente as barras dos transformadores com finalidade de se ignorar todos os ramais e segmentos de baixa tensão.

Para a redução dos ramos de média tensão pôde se utilizar funções nativas do DSS que facilitam a aglutinação de segmentos em série.

Sendo feitas essas simplificações, se faz necessário algum método para seja corrigida a energia consumida pelo alimentador durante as 24 horas de simulação, visando manter fidelidade com o sistema original.

A. Redução dos Ramos de Baixa Tensão

Como supracitado, visando a eliminação do maior número de barras do sistema, optou-se por tornar equivalente todo o sistema de baixa tensão (linhas, cargas e ramais) por uma única carga trifásica conectada ao transformador, que traduza o comportamento real da rede. Para tal, é necessário a coleta de dados de tensão e corrente nos pontos de interesse. Para atender essa necessidade, foram alocados elementos *monitores* na barra de baixa tensão de cada transformador. Seus dados de potência foram exportados por meio de um arquivo csv, como ilustrado na Tabela I, em que são extratificadas as demandas de potência ativa e reativa em cada hora do dia, para as três fases da rede.

A criação dos elementos *monitores* obedece o algoritmo mostrado na Figura 3.

Essa filosofia de redução implicou também na simplificação do *LoadShape* das novas cargas a serem declaradas, pois agora essas cargas declaradas representam não apenas as UCBTs mas também os ramos de baixa tensão do sistema. Para manter a simplicidade do sistema foi utilizado em todas as cargas um *LoadShape* que amostra o comportamento do alimentador como um todo. Foram lidas as informações de potência ativa e reativa na barra do alimentador e seus valores foram normalizados, gerando um novo *LoadShape* conforme visto na Figura 4.

Com tais dados, foi possível calcular a potência complexa média consumida por cada transformador de modo que a potência consumida pelo transformador i seja:

$$S_i = \frac{1}{24} \sum_{k=1}^{k=24} S_k \quad (1)$$

na qual, S_K indica o fluxo de potência no transformador durante a k -ésima hora.

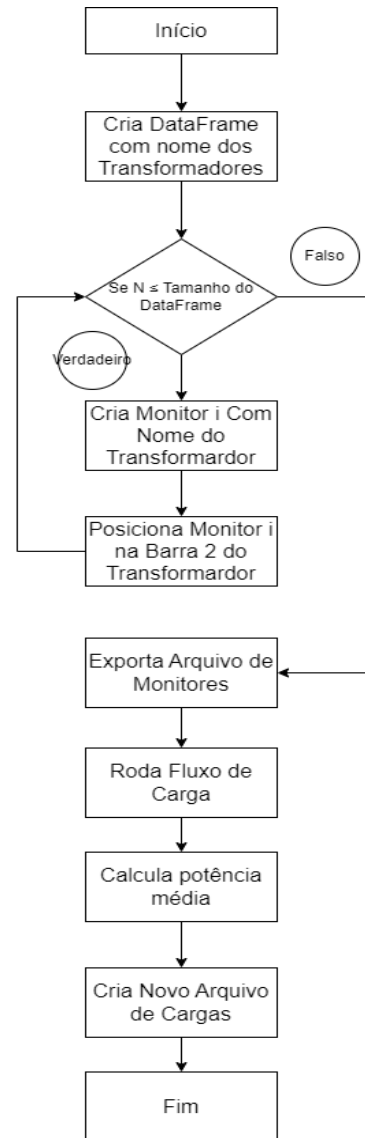


Figura 3. Fluxograma Criação de *Monitores*. Fonte: Próprio autor.

Tendo posse desses dados de potência, as novas cargas instanciadas, agora conectadas às barras de baixa tensão do transformador são simplesmente a média aritmética de todas as unidades consumidoras conectadas ao k -ésimo transformador.

Essas cargas foram arbitradas como cargas trifásicas equilibradas, de tensão nominal 380 V em conexão Y.

Fazendo uso dessa metodologia foi possível reduzir o número total de barras de 21.018 para 1.217.

B. Redução dos Ramos de Média Tensão

A redução dos ramos de média tensão apresentou uma complexidade consideravelmente menor em comparação com outras etapas do processo. O DSS oferece uma função nativa voltada à simplificação e redução de redes. A função *reduce* pode receber diversos parâmetros

No entanto, a utilização dessa função não se mostrou tão direta quanto inicialmente poderia sugerir. Ao aplicar essa ferramenta ao circuito original, sem a alocação de monitores

Tabela I
EXEMPLO DE ARQUIVO .CSV GERADO PELO MONITOR

Hora	P1 (kW)	Q1 (kvar)	P2 (kW)	Q2 (kvar)	P3 (kW)	Q3 (kvar)
1	1530,38	739,098	1531,78	739,533	1530,51	739,052
2	1400,03	662,299	1401,31	662,694	1400,14	662,261
3	1308,85	610,361	1310,05	610,729	1308,94	610,327
4	1290,02	599,788	1291,2	600,15	1290,11	599,756
5	1277,71	592,773	1278,88	593,132	1277,8	592,741
6	1333,8	623,909	1335,02	624,284	1333,9	623,874
7	1422,37	674,716	1423,67	675,117	1422,48	674,676
8	1386,56	653,99	1387,83	654,381	1386,66	653,952
9	1471,77	705,028	1473,11	705,445	1471,88	704,985
10	1611,18	790,868	1612,64	791,328	1611,32	790,816
11	1653,41	817,75	1654,91	818,224	1653,56	817,695
12	1784,3	900,616	1785,92	901,129	1784,47	900,551
13	1892,02	972,601	1893,74	973,147	1892,22	972,528
14	1795,18	909,816	1796,81	910,334	1795,36	909,751
15	1828,24	932,237	1829,89	932,765	1828,42	932,169
16	1803,79	916,314	1805,43	916,835	1803,97	916,247
17	1846,59	943,482	1848,26	944,015	1846,78	943,412
18	1945,88	1008,02	1947,64	1008,58	1946,09	1007,94
19	2290,09	1267,53	2292,17	1268,2	2290,38	1267,42
20	2354,41	1322,36	2356,55	1323,05	2354,73	1322,24
21	2310,55	1287,21	2312,64	1287,89	2310,85	1287,1
22	2190,96	1186,95	2192,94	1187,58	2191,22	1186,85
23	1953,59	1011,17	1955,36	1011,73	1953,8	1011,09
24	1778,09	893,222	1779,7	893,73	1778,26	893,158

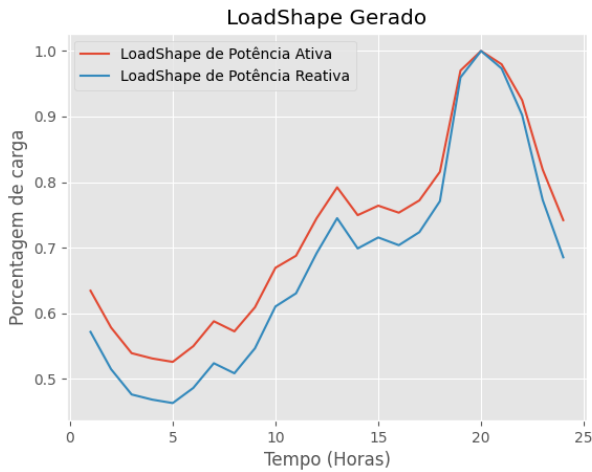


Figura 4. LoadShape Gerado. Fonte: Próprio autor.

ou outros elementos *shunt* nos troncos principais da rede, observou-se uma redução do número de barras significativamente inferior à esperada. O sistema, composto originalmente por 21.018 barras, foi reduzido para 20.401 barras, o que representa uma diminuição de apenas 2,93%. Tal redução, embora tecnicamente válida, mostrou-se insuficiente para os objetivos do presente trabalho.

Embora a função de redução não tenha se mostrado tão eficaz quando aplicada diretamente ao sistema original, foi possível utilizá-la após a eliminação dos ramos de baixa tensão. Através da aplicação de equivalentes de ramos série, foi possível reduzir o número de barras de 1.217 para 600, resultando em uma simplificação significativa do sistema.

C. Método para Correção da Energia do Alimentador

Após a realização das reduções nos ramos de média e baixa tensão, foi possível observar um aumento significativo na energia consumida pelo alimentador ao longo do dia. Uma das possíveis explicações para esse aumento é a simplificação dos segmentos de baixa tensão. Ao efetuar essas reduções e alocar uma carga equivalente na barra do transformador, o sistema deixou de ter a queda de tensão que anteriormente existia na rede. Essa perda resultou em uma melhoria no perfil de tensão, o que, embora seja considerado positivo, contradiz o propósito inicial deste estudo, que visava manter a fidelidade ao sistema original.

Para resolver esse problema, foi desenvolvido um método iterativo que utiliza a energia ativa total do sistema original, como base para corrigir a potência de cada uma das cargas. Inicialmente, realiza-se uma comparação entre a energia base (*EnergiaBase*) e a energia do sistema reduzido (*EnergiaCal*). A partir disso, calcula-se a diferença entre elas (ΔE), conforme (2), e o fator de correção (*EnergiaFC*), conforme (3).

$$\Delta E = \text{EnergiaBase} - \text{EnergiaCal} \quad (2)$$

$$\text{EnergiaFC} = \frac{\Delta E}{\text{EnergiaBase}} \quad (3)$$

O parâmetro ΔE tem a função de atuar como critério de parada para o método iterativo, sendo que, ao atingir um valor menor ou igual a 0,1, indica-se que o método convergiu. Já o fator de correção ajusta as cargas; ele é multiplicado pela potência de cada carga para gerar a variação necessária na energia do sistema na iteração i , conforme equações (4) e (5).

$$P_i = P_{i-1}(1 + \text{EnergiaFC}) \quad (4)$$

$$Q_i = Q_{i-1}(1 + \text{EnergiaFC}) \quad (5)$$

Este algoritmo pode ser visto de maneira mais clara na Figura 5.

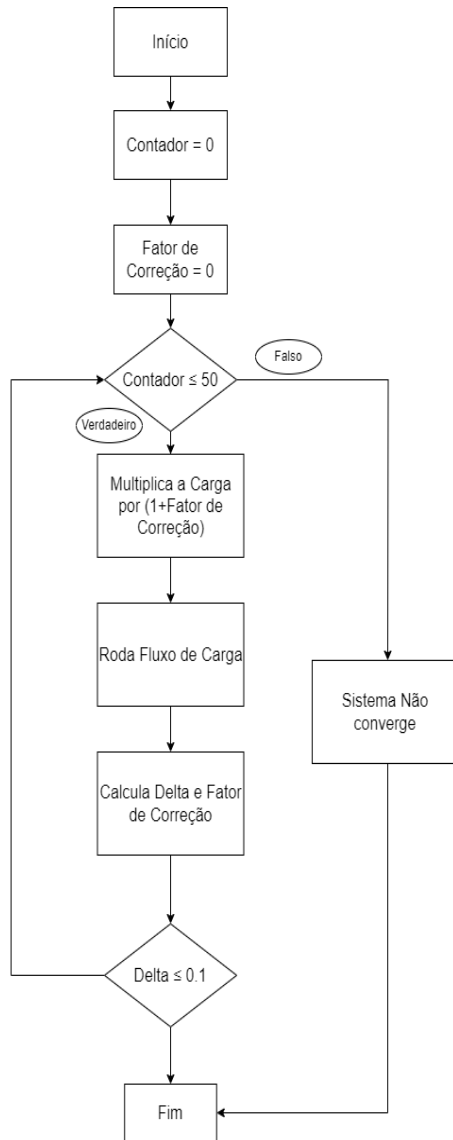


Figura 5. Fluxograma do Método de Correção. Fonte: Próprio autor.

Vale destacar que, embora não explicitado acima, os valores de ΔE e do fator de correção são aplicados tanto para a energia ativa, quanto para a energia reativa da rede.

IV. RESULTADOS E DISCUSSÕES

A validação das grandezas é um passo essencial para confirmar se o sistema reduzido representa uma boa aproximação da rede em estudo. No contexto deste artigo, esta seção destina-se a verificar e comparar os parâmetros do sistema original, gerado pelos softwares Geoperdas e ProgGeoperdas, com os parâmetros do sistema após a redução. Para realizar essa validação, foram conduzidas análises de potência, energia e

perfil de tensão tanto no alimentador quanto em três transformadores de distribuição ao longo do circuito, que podem ser vistos na Figura 6.

Os transformadores analisados foram escolhidos aleatoriamente. Observando a declaração destes equipamentos é possível notar algumas características:

- Transformador TRF 5740255A: Transformador trifásico, de 2 enrolamentos na conexão $\Delta-Y$ de potência e tensão nominais $13,8/0,38kV$ e $75kVA$, respectivamente;
- Transformador TRF 5286916A: Transformador trifásico, de 2 enrolamentos na conexão $\Delta-Y$ de potência e tensão nominais $13,8/0,38kV$ e $112,5kVA$, respectivamente;
- Transformador TRF 5286818A: Transformador trifásico, de 2 enrolamentos na conexão $\Delta-Y$ de potência e tensão nominais $13,8/0,38kV$ e $75kVA$, respectivamente.

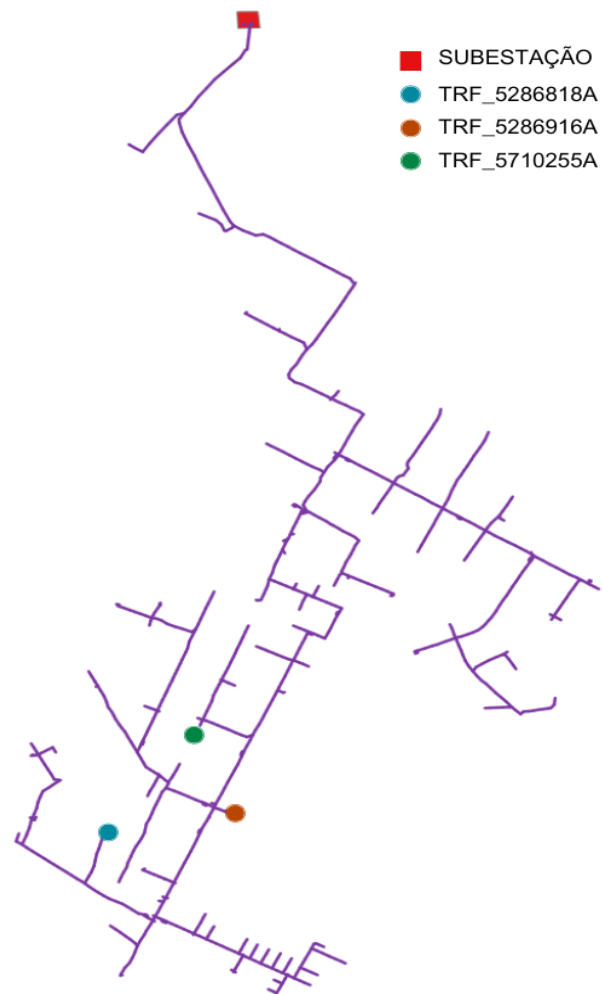


Figura 6. Posição dos Transformadores Escolhidos. Fonte: Próprio autor.

Com a eliminação dos ramos de baixa tensão se observou uma redução expressiva do número de barras do sistema

$$\frac{21018 - 1217}{21018} \cdot 100 = 94,21\%$$

Ao aplicar a redução dos ramos de média tensão pôde se obter uma redução percentual de

$$\frac{21018 - 600}{21018} \cdot 100 = 97,14\%$$

Este é um número satisfatório de barras para o sistema reduzido, visto que o principal objetivo é se tratar de um sistema para fins didáticos, que seja uma amostra razoável de uma rede real do sistema de distribuição goianiense.

Para verificar as presentes diferenças nos parâmetros do circuito, foram calculados erros percentuais de tensão, potência ativa, potência reativa e energia ativa consumidas ao longo do dia, conforme as equações (6), (7), (8) e (9), respectivamente.

$$\text{Erro}_V = 100 \cdot \frac{V_{\text{original}} - V_{\text{Redução}}}{V_{\text{original}}} \quad (6)$$

$$\text{Erro}_P = 100 \cdot \frac{P_{\text{original}} - P_{\text{Redução}}}{P_{\text{original}}} \quad (7)$$

$$\text{Erro}_Q = 100 \cdot \frac{Q_{\text{original}} - Q_{\text{Redução}}}{Q_{\text{original}}} \quad (8)$$

$$\text{Erro}_E = 100 \cdot \frac{E_{\text{original}} - E_{\text{Redução}}}{E_{\text{original}}} \quad (9)$$

Para melhor visualização desses dados foi calculado um erro médio com as 24 amostras de cada um destes parâmetros. Os erros médios de potência para os transformadores são exibidos na Tabela III e os erros de tensão na Tabela IV.

A. Análise dos Parâmetros do Alimentador

A Figura 7 ilustra o perfil diário de potência ativa e reativa no alimentador analisado, antes e após a redução do circuito de 20 mil para 600 barras. Observa-se que as curvas de potência ativa e reativa, tanto na configuração original quanto na reduzida, apresentam um comportamento temporal semelhante, com variações que acompanham o perfil de carga ao longo do dia. Essa consistência é um forte indicativo de que a redução do circuito preservou as características principais do sistema original, sem alterar significativamente o padrão de consumo nas diferentes horas do dia. Além disso, a pouca variação do fator de potência entre as duas configurações reforça a manutenção da relação entre potência ativa e reativa no modelo simplificado, conforme visto na Tabela II.

B. Análise dos Parâmetros dos Transformadores

Os transformadores representam o elemento central da análise proposta neste trabalho, uma vez que possibilitaram a redução significativa do número de barras no sistema. Para esse fim, observou-se a variação dos erros percentuais médios nas potências trifásicas dos transformadores. Entre os transformadores avaliados, o transformador 5286818A apresentou uma margem de erro mais elevada, apesar de os níveis de tensão antes e após a redução permanecerem bastante próximos. Os valores dos erros podem ser vistos na Tabela III

Foram comparados também os níveis de tensão nas barras de baixa tensão dos transformadores observados. Com os valores de tensão observados foram calculados erros percentuais e os valores mostrados na Tabela IV correspondem ao erro médio para cada transformador observado. É possível perceber que os valores do sistema reduzido se aproximam bastante dos níveis de tensão do sistema original, o que é um bom indicativo para a robustez da redução apresentada.

Tabela II
FATOR DE POTÊNCIA POR HORA

Hora	FP Redução	FP Original	Erro
1	0,901	0,898	0,276%
2	0,904	0,900	0,429%
3	0,906	0,901	0,539%
4	0,907	0,902	0,577%
5	0,907	0,902	0,577%
6	0,906	0,901	0,505%
7	0,904	0,900	0,399%
8	0,904	0,900	0,444%
9	0,902	0,899	0,350%
10	0,898	0,896	0,199%
11	0,896	0,895	0,155%
12	0,893	0,893	0,007%
13	0,889	0,890	0,104%
14	0,892	0,892	0,007%
15	0,891	0,891	0,025%
16	0,892	0,892	0,002%
17	0,891	0,891	0,050%
18	0,888	0,889	0,166%
19	0,875	0,881	0,651%
20	0,872	0,879	0,752%
21	0,874	0,880	0,707%
22	0,879	0,883	0,470%
23	0,888	0,890	0,184%
24	0,894	0,894	0,003%

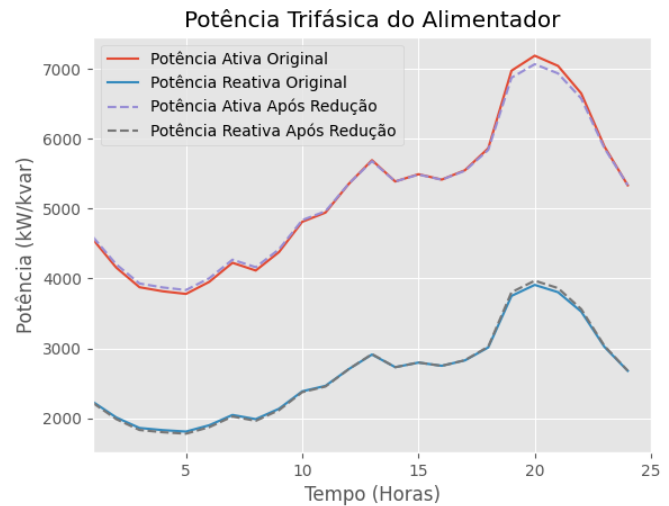


Figura 7. Potência na Saída do Alimentador. Fonte: Próprio Autor.

Por fim, foram observadas as energias acumuladas em cada transformador ao longo do tempo e calculado o erro percentual, mostrado na Tabela V. Como esperado, foram observados erros muito pequenos uma vez que foi utilizada a metodologia apresentada para que se ajustasse a energia consumida pelo alimentador. A correção da energia consumida pelos transformadores vem como consequência da correção da energia consumida pelo alimentador

A variação observada pode ser atribuída ao uso de um perfil de carga médio (*loadshape*) para todo o alimentador. Essa simplificação, necessária para viabilizar a redução de complexidade do sistema, implica em um comportamento de carga uniforme a todos os transformadores, desconsiderando a particularidade de cada um. Como resultado, a análise deixa

Tabela III
ERRO NA POTÊNCIA ATIVA E REATIVA PARA OS TRANSFORMADORES. FONTE: PRÓPRIO AUTOR.

Transformador	Erro Pot Ativa 3Ø (%)	Erro Pot Reativa 3Ø (%)
TRF_5286818A	9,396	10,227
TRF_5286916A	2,817	4,188
TRF_5740255A	2,787	4,568

Tabela IV
VALORES DE TENSÃO PARA OS TRANSFORMADORES. FONTE: PRÓPRIO AUTOR.

Transformador	Erro Tensão Fase A (%)	Erro Tensão Fase B (%)	Erro Tensão Fase C (%)
TRF_5286818A	0,9446	0,7174	1,5258
TRF_5286916A	0,9153	0,4327	1,2736
TRF_5740255A	1,0179	0,2771	1,2629

Tabela V
TABELA DE ENERGIA ATIVA E ERRO PERCENTUAL. FONTE: PRÓPRIO AUTOR.

Elemento	Energia Ativa Original (kWh)	Energia Ativa Após Redução (kWh)	Erro (%)
Alimentador	124422	124421	0,0008
TRF_5286818A	472	474	0,424
TRF_5286916A	1061	1065	0,377
TRF_5740255A	487	495	1,64

Tabela VI
TABELA DE ENERGIA REATIVA E ERRO PERCENTUAL. FONTE: PRÓPRIO AUTOR.

Elemento	Energia Reativa Original (kvarh)	Energia Reativa Após Redução (kvarh)	Erro (%)
Alimentador	63076	63077	0,0016
TRF_5286818A	195	197	1,0256
TRF_5286916A	437	436	0,2293
TRF_5740255A	199	205	3,01

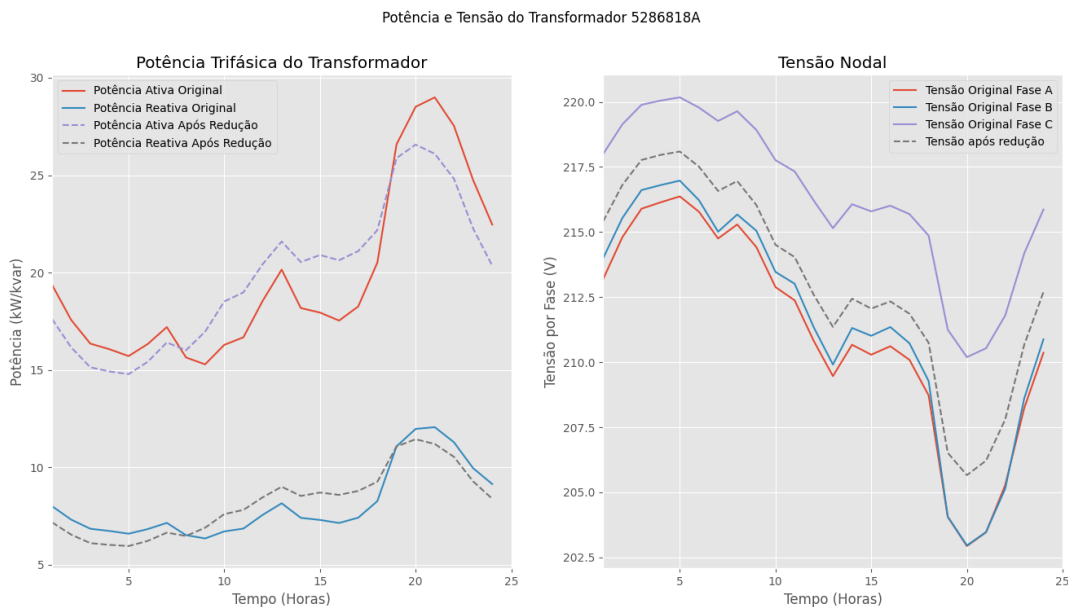


Figura 8. Potência e Tensão no Transformador TRF 5286818A. Fonte: Próprio Autor.

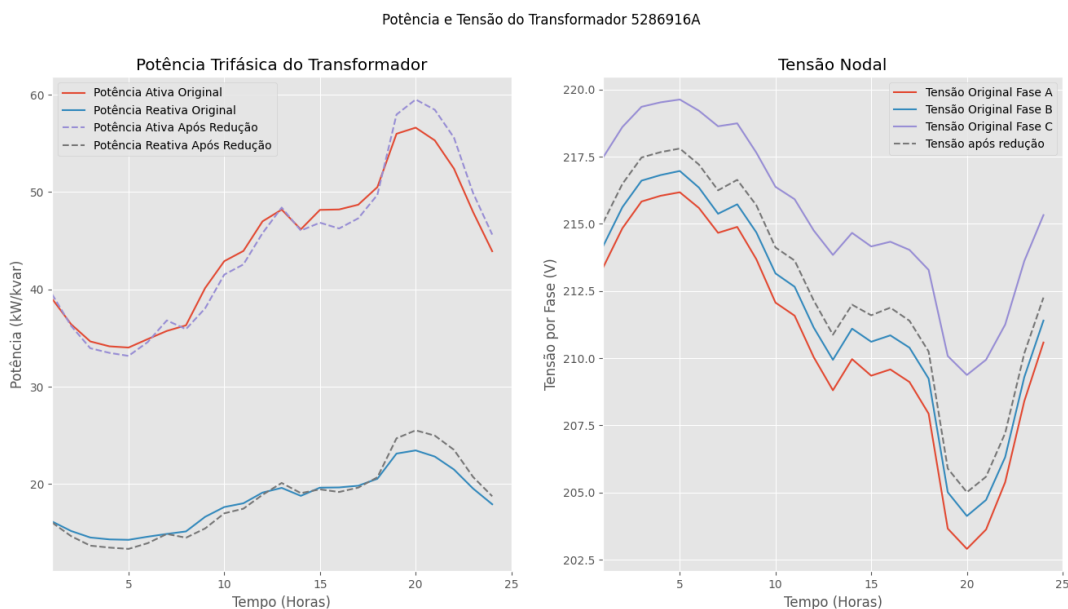


Figura 9. Potência e Tensão no transformador TRF 5286916A. Fonte: Próprio Autor.

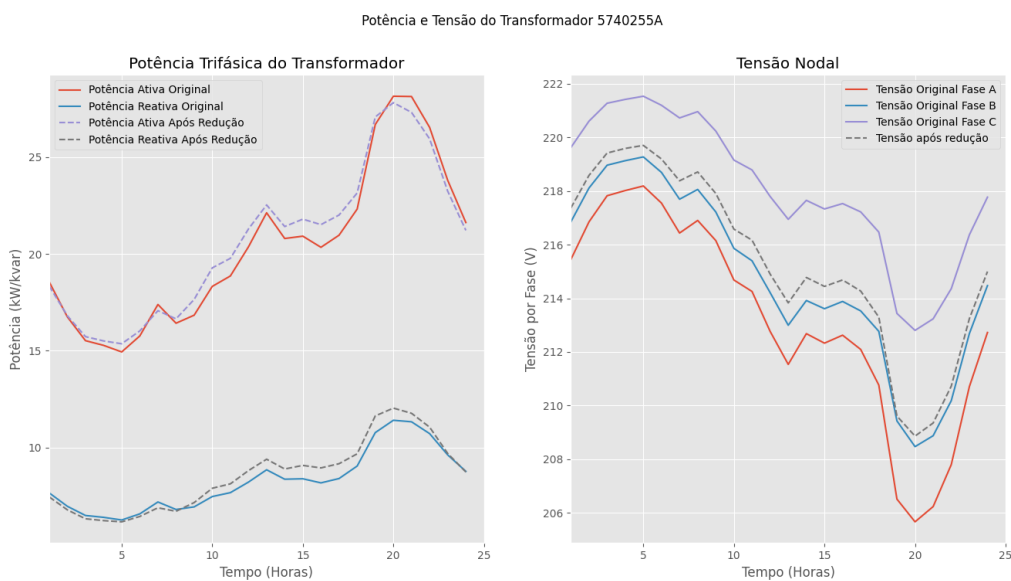


Figura 10. Potência e Tensão no Transformador TRF 5740255A. Fonte: Próprio Autor.

de captar as oscilações específicas de demanda que cada transformador experimenta ao longo do dia, especialmente em horários de pico e em momentos de baixa demanda. Embora a redução seja útil para simplificar a análise, ela introduz um erro sistemático, especialmente em sistemas com alta heterogeneidade de cargas.

Embora tenha se observado essa variação em um dos transformadores analisados, o perfil de tensão se manteve basicamente inalterado conforme é mostrado na Tabela IV

C. Análise de Tensão ao Longo do Alimentador

Nas Figuras 11 e 12, é possível observar o perfil de tensão nodal em cada fase, à medida que a rede se distancia da fonte. Nota-se que o módulo da tensão diminui conforme o elemento se afasta do alimentador, o que é característico de redes de distribuição [8]. Um ponto relevante a ser destacado é que, após a redução do sistema, as tensões nodais se tornam sobrepostas, uma vez que o sistema passa a apresentar cargas perfeitamente equilibradas.

Observou-se, adicionalmente, uma melhoria no perfil de tensão. Antes da redução, a tensão atingia níveis críticos (0,95 pu) a aproximadamente 4 km na Fase 3, enquanto nas Fases 1 e 2 esse valor era alcançado em torno de 5,5 km. No sistema reduzido, a tensão atinge o valor crítico em cerca de 5 km, o que corresponde a um valor próximo média das distâncias observadas no sistema original desbalanceado.

Esse resultado é esperado, uma vez que o sistema balanceado apresenta tensões equilibradas entre as fases. Como consequência, a tensão de fase tende a refletir um valor médio representativo do desbalanço observado no sistema original. Além disso, esse comportamento reforça a viabilidade da utilização da rede reduzida para fins didáticos e para a realização de análises simplificadas.

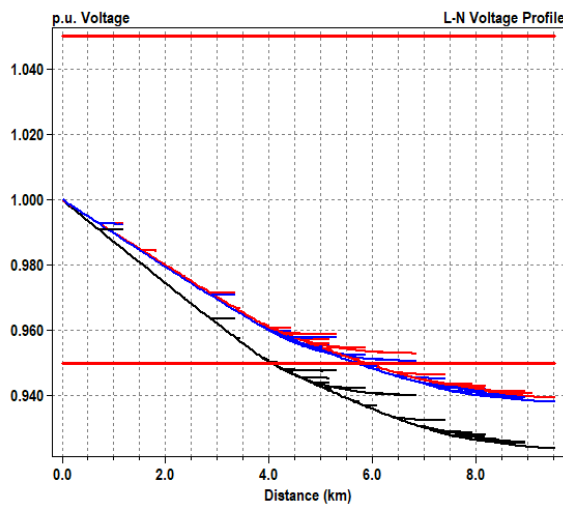


Figura 11. Perfil de Tensão Antes da Redução. Fonte: Próprio Autor.

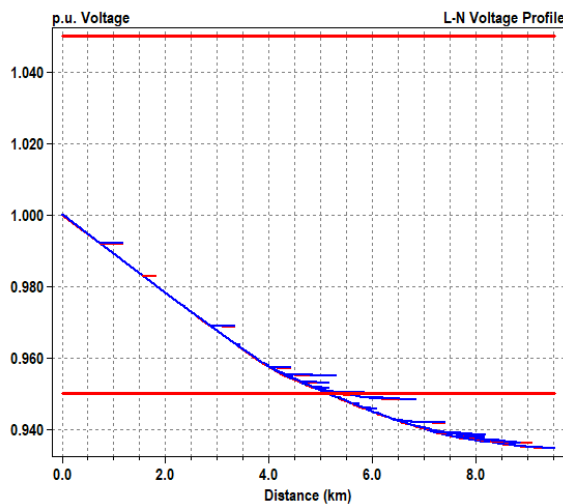


Figura 12. Perfil de Tensão Após da Redução. Fonte: Próprio Autor.

V. TESTE DE VALIDAÇÃO

Após a construção do sistema reduzido, realizou-se um teste para avaliar a fidelidade do modelo simplificado em relação ao sistema original. Esse teste teve como objetivo verificar a proximidade das respostas dos dois modelos quando submetidos à inserção de um gerador fotovoltaico, representando uma fonte de microgeração distribuída.

A. Configuração do PVSystem

Para este estudo, foi selecionado um dos transformador antes analisado (5740255A), ao qual foi conectado um sistema de geração. O PVSystem foi configurado com os seguintes parâmetros:

- Potência de injeção = 20 kVA
- Ponto de máxima potência (P_{Pmp}) = 15 kVA
- Fator de potência unitário

Esses valores foram definidos para simular um cenário típico de microgeração residencial ao longo de um dia, considerando um sistema fotovoltaico ligado à rede de baixa tensão. Para simplificação, utilizou-se o modelo de irradiação solar padrão disponível no software *OpenDSS*.

B. Resultados

Os testes foram conduzidos tanto no sistema original quanto no reduzido. A partir da simulação, analisaram-se as respostas em termos de:

- Fluxo de potência no transformador;
- Tensões nodais na barra de baixa tensão.

Os resultados obtidos foram comparados por meio do cálculo do erro percentual médio entre os dois modelos. Esse método permitiu identificar a proximidade entre as respostas do sistema simplificado e do modelo completo, assegurando que a redução não comprometesse a precisão das análises.

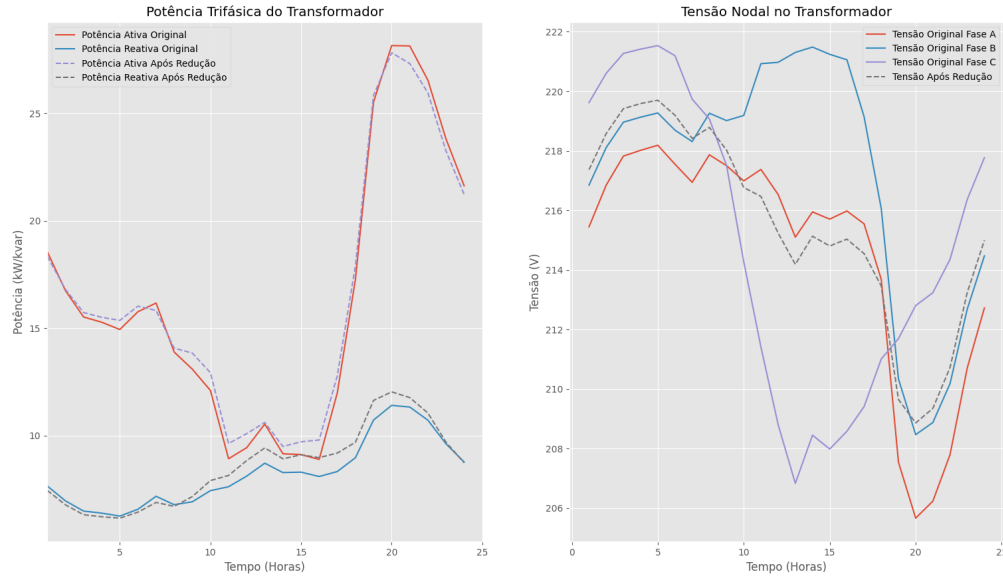
Os resultados obtidos indicaram que o comportamento do sistema reduzido foi consistente com o do sistema original. Os valores calculados para fluxo de potência e tensões nodais apresentaram diferenças mínimas, conforme ilustrado na Tabela VII e Figura 13.

Essa similaridade confirma a capacidade do modelo reduzido de representar adequadamente o comportamento do sistema original em cenários de geração distribuída. A baixa discrepância observada reforça a utilidade da simplificação para análises didáticas e para aplicações práticas que demandem menor custo computacional.

Tabela VII
DADOS OBSERVADOS NO TRANSFORMADOR 5740255A

Erro	Valor (%)
Potência Ativa 3 ϕ	2,298
Potência Reativa 3 ϕ	3,435
Tensão na Fase A	0,4313
Tensão na Fase B	0,8003
Tensão na Fase C	0,3548

Impacto da GD no trafo 5740255A

Figura 13. Tensões e Potências Aplicando *PVSystem*

VI. CONCLUSÃO E TRABALHOS FUTUROS

Dada a relevância dos sistemas elétricos de potência para a operação segura e eficiente das redes de distribuição, o presente estudo desenvolveu um modelo reduzido de um alimentador da Região Metropolitana de Goiânia, com o objetivo de atender à demanda por simulações computacionais em sistemas de energia elétrica de grande porte. A construção desse modelo reduzido permite a realização de simulações mais rápidas, facilitando a análise de fenômenos específicos do sistema, como estabilidade, operação e segurança de proteção, enquanto minimiza a complexidade computacional envolvida.

A rede proposta neste trabalho apresenta bons indicadores de fidelidade em relação ao sistema original, especialmente no que diz respeito às tensões nodais e ao consumo de energia, além de uma considerável redução no número de barras e elementos presentes no modelo.

Quanto aos testes realizados na rede equivalente, também foram observados bons resultados em termos de fidelidade com o sistema original. Não houveram alterações significativas no consumo de potência, e os erros nas tensões nodais foram mínimos.

Em linhas gerais, o sistema demonstrou robustez e precisão durante todas as análises realizadas, gerando resultados consistentes com as expectativas e alinhados com a literatura existente.

Entretanto, é fundamental que o sistema reduzido seja submetido a outros estudos comparativos, nos quais a resposta do modelo seja confrontada com a do sistema original. Para isso, propõem-se as seguintes áreas de estudo:

- Estudos de Curto-Circuito e Estabilidade;
- Estudos de Cargas Não Lineares;
- Estudos de Inversão de Fluxo de Potência nos Transformadores de Distribuição;

- Estudos de Perdas Técnicas.
- Exportação da rede para outros *softwares* de resolução de fluxo de carga

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VII. ANEXOS

! Criação da seção do arquivo master

Clear

Redirect 'ALIMENTADOR_2021126072_5002086.dss'

Redirect 'CODIGO_CONDUTOR_2021126072_5002086.dss'

Redirect 'LOADSHAPES_MT_2021126072_5002086.dss'

Redirect 'LOADSHAPES_BT_2021126072_5002086.dss'

Redirect 'CHAVES_MT_2021126072_5002086.dss'

Redirect 'LINHAS_MT_2021126072_5002086.dss'

Redirect 'TRANSFORMADORES_2021126072_5002086.dss'

Redirect 'MEDIDORES_2021126072_5002086.dss'

Redirect 'CARGAS_DU01_2021126072_5002086.dss'

Redirect 'TENSOES_BASE_2021126072_5002086.dss'

Redirect 'MONITORES_2021126072_5002086.dss'

buscoords buscoords.csv

Set mode = daily

Set tolerance = 0.0001

Set maxcontroliter = 10

!Set algorithm = newton

!Solve mode = direct

Reduce

!Solve

! Criação da seção de circuitos

New "Circuit.5002086" basekv=13.8 pu=1 bus1="84808465002086" r1=0 x1=0.0001

! Criação da seção de cargas

New "Load.mt_10009727955_m1" bus1="88185385002086.1.2.3.4" phases=3 conn=Wye
model=2 kv=13.8 kw=5.46925728729341 kvar=2.616981255885 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10009727955_m2" bus1="88185385002086.1.2.3.4" phases=3 conn=Wye
model=3 kv=13.8 kw=5.46925728729341 kvar=2.616981255885 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10014416466_m1" bus1="89458365002086.1.2.3.4" phases=3 conn=Wye
model=2 kv=13.8 kw=2.65068009244008 kvar=1.2683221419075 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10014416466_m2" bus1="89458365002086.1.2.3.4" phases=3 conn=Wye
model=3 kv=13.8 kw=2.65068009244008 kvar=1.2683221419075 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10015559007_m1" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye
model=2 kv=13.8 kw=2.32027223167495 kvar=1.11022550592947 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10015559007_m2" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye
model=3 kv=13.8 kw=2.32027223167495 kvar=1.11022550592947 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10020770241_m1" bus1="90964325002086.1.2.3.4" phases=3 conn=Wye
model=2 kv=13.8 kw=0.984395574708071 kvar=0.471022779157282 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10020770241_m2" bus1="90964325002086.1.2.3.4" phases=3 conn=Wye
model=3 kv=13.8 kw=0.984395574708071 kvar=0.471022779157282 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10022767280_m1" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye
model=2 kv=13.8 kw=1.01515360529308 kvar=0.485740168609034 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10022767280_m2" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye
model=3 kv=13.8 kw=1.01515360529308 kvar=0.485740168609034 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10009727955_nt_m1" bus1="88185385002086.1.2.3.4" phases=3 conn=Wye
model=2 kv=13.8 kw=1.79372452298693 kvar=0.858278045500595 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10009727955_nt_m2" bus1="88185385002086.1.2.3.4" phases=3 conn=Wye
model=3 kv=13.8 kw=1.79372452298693 kvar=0.858278045500595 daily="CURVA"
status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10014416466_nt_m1" bus1="89458365002086.1.2.3.4" phases=3 conn=Wye model=2 kv=13.8 kw=0.869330069097011 kvar=0.415965162452603 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

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New "Load.mt_10015559007_nt_m1" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye model=2 kv=13.8 kw=0.760967900998345 kvar=0.364115021224084 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10015559007_nt_m2" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye model=3 kv=13.8 kw=0.760967900998345 kvar=0.364115021224084 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10020770241_nt_m1" bus1="90964325002086.1.2.3.4" phases=3 conn=Wye model=2 kv=13.8 kw=0.32284708491831 kvar=0.154478885407572 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10020770241_nt_m2" bus1="90964325002086.1.2.3.4" phases=3 conn=Wye model=3 kv=13.8 kw=0.32284708491831 kvar=0.154478885407572 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10022767280_nt_m1" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye model=2 kv=13.8 kw=0.332934750767698 kvar=0.159305725882752 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.mt_10022767280_nt_m2" bus1="89813615002086.1.2.3.4" phases=3 conn=Wye model=3 kv=13.8 kw=0.332934750767698 kvar=0.159305725882752 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286699a" bus1="82034475286699.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=0.268829373986176 kvar=0.129478696298239 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286707a" bus1="82034835286707.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=13.2972889285625 kvar=6.41189718869 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286708a" bus1="82034845286708.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=1.16836070063365 kvar=0.569334536224985 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286718a" bus1="82053655286718.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=2.29129887043747 kvar=1.06907255061507 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286787a" bus1="82023305286787.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.7171219795403 kvar=13.8571470140063 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286788a" bus1="82023395286788.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=48.9352030258116 kvar=22.3753838512962 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286789a" bus1="82022295286789.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=19.4987837323933 kvar=9.06517893863251 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286790a" bus1="82022455286790.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=30.9748502224353 kvar=14.5231031895442 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286791a" bus1="82022605286791.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=35.7882874461477 kvar=16.648535216187 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286792a" bus1="82019965286792.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.5887672760484 kvar=13.7181174763906 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286793a" bus1="82020055286793.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=17.9938955943474 kvar=8.35912062697325 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286794a" bus1="82020175286794.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=43.8228339652327 kvar=20.3731833181143 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286795a" bus1="82020405286795.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=31.3968056498704 kvar=14.6697402094091 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286796a" bus1="82020555286796.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=24.1876272379544 kvar=11.2482317348406 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286797a" bus1="82020675286797.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=15.5028314580108 kvar=7.23860128244348 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286798a" bus1="82021885286798.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=18.1585706907148 kvar=8.44531533080758 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286799a" bus1="82021995286799.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=37.0680111671048 kvar=17.160236606518 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286800a" bus1="82024325286800.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=31.8118283117642 kvar=14.7889364399254 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286801a" bus1="82022225286801.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=22.5086119257695 kvar=10.4704796949189 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286802a" bus1="82021615286802.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=19.2443785321294 kvar=8.91402675864866 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286803a" bus1="82036745286803.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=36.9265946148705 kvar=16.8838601314077 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286804a" bus1="82033055286804.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=33.9698564773648 kvar=15.5198366848987 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286805a" bus1="82033395286805.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=22.8258169307541 kvar=10.5099702995059 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286806a" bus1="82024965286806.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.4074361336519 kvar=13.8148099208223 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286807a" bus1="90855665286807.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=41.3265954933638 kvar=19.1561461638064 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286808a" bus1="82027905286808.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=41.7898996988877 kvar=19.0591725679962 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286809a" bus1="82028045286809.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.1950957197373 kvar=13.4801863422098 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286810a" bus1="82028035286810.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=47.6753258888312 kvar=22.3618057363697 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286811a" bus1="82026685286811.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=35.9987558985965 kvar=16.7240229098655 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286812a" bus1="82026915286812.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=62.2550336474719 kvar=29.0547297113384 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286813a" bus1="82028365286813.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=16.7356398137878 kvar=7.74781321759969 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286814a" bus1="82027655286814.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=37.660330910372 kvar=17.4543347093106 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286815a" bus1="82027735286815.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=42.8537823737743 kvar=19.932590340743 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286816a" bus1="82029355286816.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=35.1204740362075 kvar=16.4381312705117 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286817a" bus1="82029275286817.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=22.1749858759426 kvar=10.233088381851 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286818a" bus1="82028855286818.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=14.1416502855115 kvar=6.50982118025307 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286819a" bus1="82027135286819.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=37.7218402184493 kvar=17.5073414719628 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286820a" bus1="82026625286820.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=25.3250044932874 kvar=11.6695843017872 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286821a" bus1="82025745286821.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=50.5075244555559 kvar=23.6178349251503 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286828a" bus1="82042655286828.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=27.4438807906939 kvar=13.1237394512003 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286829a" bus1="81490995286829.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=15.555257711882 kvar=7.27321274838376 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286830a" bus1="81460505286830.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=32.8725701026926 kvar=15.6109878143605 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286831a" bus1="82043025286831.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=27.3081814129911 kvar=12.750994461654 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286832a" bus1="82042575286832.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=22.5669626988997 kvar=10.4444875162967 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286833a" bus1="82041995286833.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.8859100472476 kvar=13.7929545784931 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286834a" bus1="82038095286834.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=37.2356947803616 kvar=17.4042840750115 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5286835a" bus1="82038115286835.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=31.1131256356819 kvar=14.4420206500853 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286836a" bus1="82041105286836.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=19.8793499731852 kvar=9.18861163005964 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286837a" bus1="82041215286837.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=10.9527022257711 kvar=5.11470951090017 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286838a" bus1="82041905286838.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=20.9563672830149 kvar=9.71084203385415 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286839a" bus1="82038825286839.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=30.3075499326564 kvar=14.1215043837281 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286840a" bus1="82037555286840.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=43.2039268891612 kvar=20.2389193206954 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286841a" bus1="82039455286841.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.0398476374456 kvar=12.0593831641464 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286842a" bus1="82039695286842.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=28.0660381429383 kvar=12.9758045486541 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286843a" bus1="82042105286843.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=21.40372723545 kvar=9.94559105542109 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286844a" bus1="82042165286844.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=19.7631542706939 kvar=9.17758450759305 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286845a" bus1="82042275286845.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=27.2034806031397 kvar=12.5695074512755 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286846a" bus1="82041545286846.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=21.1992116581756 kvar=9.78509241855319 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286857a" bus1="82062475286857.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=37.2755114573032 kvar=17.2336383317155 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286858a" bus1="82064145286858.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.387854493759 kvar=12.2282333224281 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286860a" bus1="82065235286860.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=17.7205969028161 kvar=8.22597710309109 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286861a" bus1="82064065286861.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=20.8702602301357 kvar=9.65905587205641 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286862a" bus1="82065285286862.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.8766406858365 kvar=13.7730511885216 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286863a" bus1="82064825286863.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=23.5768754088524 kvar=10.9466085628161 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286864a" bus1="82064425286864.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=23.9470347537626 kvar=11.1073681934778 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286865a" bus1="82065005286865.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=23.4836203778492 kvar=10.8617893412813 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286866a" bus1="82063385286866.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=30.0941864320986 kvar=13.9183010752813 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286867a" bus1="82044385286867.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=28.3748455691457 kvar=13.021605265208 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286871a" bus1="82055725286871.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=20.2163968072582 kvar=9.32711870832511 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286872a" bus1="82054825286872.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=19.0947979160548 kvar=8.68229619968787 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286890a" bus1="82056915286890.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.6612148173334 kvar=12.365539425368 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286891a" bus1="82056385286891.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.4818282187894 kvar=12.3154332729611 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286914a" bus1="82053635286914.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.505605655156 kvar=13.6407017943999 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286915a" bus1="82054535286915.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=24.5362436080537 kvar=11.2801916696158 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286916a" bus1="82054235286916.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=31.7721840370998 kvar=14.613291481582 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286917a" bus1="82054305286917.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=47.2674769006807 kvar=21.8660099542244 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286918a" bus1="82053975286918.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=40.4335613181522 kvar=18.736685726762 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286919a" bus1="82060535286919.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=21.659498091589 kvar=10.0335137048975 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286930a" bus1="82049375286930.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=24.135171073305 kvar=11.1526377416107 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286931a" bus1="82049545286931.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=47.7143760199622 kvar=21.8390914541429 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286932a" bus1="82049765286932.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=14.1914676815716 kvar=6.62276635075499 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286933a" bus1="82049805286933.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=32.1418263906083 kvar=14.8708187033546 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286934a" bus1="82049885286934.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=50.2924036550967 kvar=23.5185213164718 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286935a" bus1="82050325286935.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=9.79836707165655 kvar=4.51824256204547 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286936a" bus1="82049975286936.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=22.5849169808853 kvar=10.3089694553513 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286937a" bus1="82050035286937.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=8.1989295004689 kvar=3.7786466840681 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286938a" bus1="82050465286938.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.1881456033494 kvar=13.5337671873867 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286939a" bus1="82039815286939.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=16.5815310569947 kvar=7.64787309896679 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286940a" bus1="82039945286940.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=21.0333909629746 kvar=9.65156248824189 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286941a" bus1="82040015286941.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.3817176719557 kvar=12.1321790899274 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286942a" bus1="82040165286942.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=11.4764256540572 kvar=5.29922052138076 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286943a" bus1="82040265286943.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=9.90294015329969 kvar=4.55567466520726 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286944a" bus1="82039725286944.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=13.3886340114127 kvar=6.17979821707823 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286945a" bus1="82040415286945.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.9924294062816 kvar=12.4535927845767 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286946a" bus1="82040575286946.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=14.4618169624097 kvar=6.65644870513775 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5440862a" bus1="81479715440862.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=24.9775356749488 kvar=11.5231147265037 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5469845a" bus1="82032105469845.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=14.0411363760069 kvar=6.43132866900474 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5470133a" bus1="82034125470133.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=11.511347831044 kvar=5.27957236773379 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5472282a" bus1="87774405472282.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=8.17296685620955 kvar=3.85306946238757 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5479360a" bus1="81460535479360.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=8.72261004094265 kvar=4.04583724325021 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5491509a" bus1="88287355491509.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=8.86863611150458 kvar=4.10564003359217 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5499009a" bus1="82062715499009.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=22.9191509938156 kvar=10.5469021240448 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5485359a" bus1="88109845485359.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=8.68947717898727 kvar=4.02729288975623 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5502834a" bus1="82026575502834.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.348919832849 kvar=12.097445691433 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5505307a" bus1="82034555505307.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=35.2432252227411 kvar=16.1502837239133 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5535535a" bus1="89701935535535.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=18.1163603417851 kvar=8.40832768705896 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5537656a" bus1="89813615537656.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=11.2022423607757 kvar=5.1655520663268 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5547722a" bus1="90017985547722.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=12.0099518369644 kvar=5.73624245603996 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5551754a" bus1="82061675551754.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=16.1958533298397 kvar=7.480236483876 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5552038a" bus1="90190165552038.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=24.0211497330826 kvar=11.2874623475781 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5552309a" bus1="82024125552309.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=18.8925259951229 kvar=8.77690367606274 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5552553a" bus1="90214315552553.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=5.66590708461932 kvar=2.63371657479061 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5552819a" bus1="82032765552819.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=51.9432604907252 kvar=23.6841798396167 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5569878a" bus1="82055955569878.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=24.6330469711789 kvar=11.2777230958522 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5555964a" bus1="9030570555964.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=8.48188728435926 kvar=4.07964864050648 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5557353a" bus1="82044325557353.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.8726149520942 kvar=12.4642649821488 daily="CURVA" status=variable vmapu=1.5 vminpu=0.92

New "Load.m2_trf_5558213a" bus1="90349975558213.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=18.2290256590952 kvar=8.43204781734384 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5560489a" bus1="90409505560489.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=20.8314221710007 kvar=9.66060801676261 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5574596a" bus1="82031945574596.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=22.0024655773407 kvar=10.1298795780137 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5577671a" bus1="90938795577671.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=18.0223140622671 kvar=8.29973131848846 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286947a" bus1="82040855286947.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=11.2234825153993 kvar=5.17120442528782 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286958a" bus1="82031405286958.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=33.1880113828576 kvar=15.3227640105302 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286959a" bus1="82031445286959.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=41.5460791406569 kvar=19.4551565347435 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286960a" bus1="82033945286960.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=29.8980064396784 kvar=13.5655518226371 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286961a" bus1="97400945286961.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=43.5635957756759 kvar=20.1444362532852 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286962a" bus1="82034445286962.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=14.9098489093612 kvar=6.89683272712145 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286963a" bus1="82035255286963.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=19.7475179667586 kvar=9.08569381545913 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286964a" bus1="82036275286964.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=69.1433406448388 kvar=32.6602661569164 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286965a" bus1="82035485286965.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=34.8897556158969 kvar=16.240674221105 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286966a" bus1="82036045286966.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=30.9263391707713 kvar=14.4166432419043 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5286967a" bus1="82029725286967.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=11.0989864255527 kvar=5.10552975061353 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5647498a" bus1="93119985647498.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=0.852314647264632 kvar=0.398042185619277 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5688575a" bus1="82054155688575.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=16.2206131044412 kvar=7.32701171397305 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5675373a" bus1="93945325675373.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=11.8130049721185 kvar=5.50663136731866 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5323939a" bus1="84503635323939.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=13.2372308211419 kvar=6.13623514548706 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5702287a" bus1="90017935702287.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=0.232467300968505 kvar=0.111740407295068 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5713817a" bus1="82034385713817.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=6.75703620497873 kvar=3.20730095163243 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5719448a" bus1="95141555719448.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=7.85717870432947 kvar=3.72535227116687 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5333902a" bus1="85167275333902.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=26.2254249405443 kvar=12.1308659749718 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5740255a" bus1="82056945740255.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=14.5905864350407 kvar=6.64296649346629 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5740270a" bus1="96033635740270.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=12.2445576749837 kvar=5.5879303058405 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5744153a" bus1="96264655744153.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=16.4320475658323 kvar=7.61863096655744 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m2_trf_5444435a" bus1="81481405444435.1.2.3.4" phases=3 conn=Wye model=3 kv=0.380 kw=11.0902798793934 kvar=5.06299693555369 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286699a" bus1="82034475286699.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=0.268829373986176 kvar=0.129478696298239 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286707a" bus1="82034835286707.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=13.2972889285625 kvar=6.41189718869 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286708a" bus1="82034845286708.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=1.16836070063365 kvar=0.569334536224985 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286718a" bus1="82053655286718.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=2.29129887043747 kvar=1.06907255061507 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286787a" bus1="82023305286787.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.7171219795403 kvar=13.8571470140063 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286788a" bus1="82023395286788.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=48.9352030258116 kvar=22.3753838512962 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286789a" bus1="82022295286789.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=19.4987837323933 kvar=9.06517893863251 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286790a" bus1="82022455286790.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=30.9748502224353 kvar=14.5231031895442 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286791a" bus1="82022605286791.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=35.7882874461477 kvar=16.648535216187 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286792a" bus1="82019965286792.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.5887672760484 kvar=13.7181174763906 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286793a" bus1="82020055286793.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=17.9938955943474 kvar=8.35912062697325 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286794a" bus1="82020175286794.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=43.8228339652327 kvar=20.3731833181143 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286795a" bus1="82020405286795.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=31.3968056498704 kvar=14.6697402094091 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286796a" bus1="82020555286796.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=24.1876272379544 kvar=11.2482317348406 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286797a" bus1="82020675286797.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=15.5028314580108 kvar=7.23860128244348 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286798a" bus1="82021885286798.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=18.1585706907148 kvar=8.44531533080758 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286799a" bus1="82021995286799.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=37.0680111671048 kvar=17.160236606518 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286800a" bus1="82024325286800.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=31.8118283117642 kvar=14.7889364399254 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286801a" bus1="82022225286801.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=22.5086119257695 kvar=10.4704796949189 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286802a" bus1="82021615286802.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=19.2443785321294 kvar=8.91402675864866 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286803a" bus1="82036745286803.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=36.9265946148705 kvar=16.8838601314077 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286804a" bus1="82033055286804.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=33.9698564773648 kvar=15.5198366848987 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286805a" bus1="82033395286805.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=22.8258169307541 kvar=10.5099702995059 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286806a" bus1="82024965286806.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.4074361336519 kvar=13.8148099208223 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286807a" bus1="90855665286807.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=41.3265954933638 kvar=19.1561461638064 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286808a" bus1="82027905286808.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=41.7898996988877 kvar=19.0591725679962 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286809a" bus1="82028045286809.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.1950957197373 kvar=13.4801863422098 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286810a" bus1="82028035286810.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=47.6753258888312 kvar=22.3618057363697 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286811a" bus1="82026685286811.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=35.9987558985965 kvar=16.7240229098655 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286812a" bus1="82026915286812.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=62.2550336474719 kvar=29.0547297113384 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286813a" bus1="82028365286813.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=16.7356398137878 kvar=7.74781321759969 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286814a" bus1="82027655286814.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=37.660330910372 kvar=17.4543347093106 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286815a" bus1="82027735286815.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=42.8537823737743 kvar=19.932590340743 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286816a" bus1="82029355286816.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=35.1204740362075 kvar=16.4381312705117 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286817a" bus1="82029275286817.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=22.1749858759426 kvar=10.233088381851 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286818a" bus1="82028855286818.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=14.1416502855115 kvar=6.50982118025307 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286819a" bus1="82027135286819.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=37.7218402184493 kvar=17.5073414719628 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286820a" bus1="82026625286820.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=25.3250044932874 kvar=11.6695843017872 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286821a" bus1="82025745286821.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=50.5075244555559 kvar=23.6178349251503 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286828a" bus1="82042655286828.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=27.4438807906939 kvar=13.1237394512003 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286829a" bus1="81490995286829.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=15.555257711882 kvar=7.27321274838376 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286830a" bus1="81460505286830.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=32.8725701026926 kvar=15.6109878143605 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286831a" bus1="82043025286831.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=27.3081814129911 kvar=12.750994461654 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286832a" bus1="82042575286832.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=22.5669626988997 kvar=10.4444875162967 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286833a" bus1="82041995286833.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.8859100472476 kvar=13.7929545784931 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286834a" bus1="82038095286834.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=37.2356947803616 kvar=17.4042840750115 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286835a" bus1="82038115286835.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=31.1131256356819 kvar=14.4420206500853 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286836a" bus1="82041105286836.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=19.8793499731852 kvar=9.18861163005964 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286837a" bus1="82041215286837.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=10.9527022257711 kvar=5.11470951090017 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286838a" bus1="82041905286838.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=20.9563672830149 kvar=9.71084203385415 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286839a" bus1="82038825286839.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=30.3075499326564 kvar=14.1215043837281 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286840a" bus1="82037555286840.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=43.2039268891612 kvar=20.2389193206954 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286841a" bus1="82039455286841.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.0398476374456 kvar=12.0593831641464 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286842a" bus1="82039695286842.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=28.0660381429383 kvar=12.9758045486541 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286843a" bus1="82042105286843.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=21.40372723545 kvar=9.94559105542109 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286844a" bus1="82042165286844.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=19.7631542706939 kvar=9.17758450759305 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286845a" bus1="82042275286845.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=27.2034806031397 kvar=12.5695074512755 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286846a" bus1="82041545286846.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=21.1992116581756 kvar=9.78509241855319 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286857a" bus1="82062475286857.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=37.2755114573032 kvar=17.2336383317155 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286858a" bus1="82064145286858.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.387854493759 kvar=12.2282333224281 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286860a" bus1="82065235286860.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=17.7205969028161 kvar=8.22597710309109 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286861a" bus1="82064065286861.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=20.8702602301357 kvar=9.65905587205641 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286862a" bus1="82065285286862.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.8766406858365 kvar=13.7730511885216 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286863a" bus1="82064825286863.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=23.5768754088524 kvar=10.9466085628161 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286864a" bus1="82064425286864.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=23.9470347537626 kvar=11.1073681934778 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286865a" bus1="82065005286865.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=23.4836203778492 kvar=10.8617893412813 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286866a" bus1="82063385286866.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=30.0941864320986 kvar=13.9183010752813 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286867a" bus1="82044385286867.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=28.3748455691457 kvar=13.021605265208 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286871a" bus1="82055725286871.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=20.2163968072582 kvar=9.32711870832511 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286872a" bus1="82054825286872.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=19.0947979160548 kvar=8.68229619968787 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286890a" bus1="82056915286890.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.6612148173334 kvar=12.365539425368 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286891a" bus1="82056385286891.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.4818282187894 kvar=12.3154332729611 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286914a" bus1="82053635286914.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.505605655156 kvar=13.6407017943999 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286915a" bus1="82054535286915.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=24.5362436080537 kvar=11.2801916696158 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286916a" bus1="82054235286916.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=31.7721840370998 kvar=14.613291481582 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286917a" bus1="82054305286917.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=47.2674769006807 kvar=21.8660099542244 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286918a" bus1="82053975286918.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=40.4335613181522 kvar=18.736685726762 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286919a" bus1="82060535286919.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=21.659498091589 kvar=10.0335137048975 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286930a" bus1="82049375286930.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=24.135171073305 kvar=11.1526377416107 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286931a" bus1="82049545286931.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=47.7143760199622 kvar=21.8390914541429 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286932a" bus1="82049765286932.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=14.1914676815716 kvar=6.62276635075499 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286933a" bus1="82049805286933.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=32.1418263906083 kvar=14.8708187033546 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286934a" bus1="82049885286934.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=50.2924036550967 kvar=23.5185213164718 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286935a" bus1="82050325286935.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=9.79836707165655 kvar=4.51824256204547 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286936a" bus1="82049975286936.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=22.5849169808853 kvar=10.3089694553513 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286937a" bus1="82050035286937.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=8.1989295004689 kvar=3.7786466840681 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286938a" bus1="82050465286938.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.1881456033494 kvar=13.5337671873867 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286939a" bus1="82039815286939.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=16.5815310569947 kvar=7.64787309896679 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286940a" bus1="82039945286940.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=21.0333909629746 kvar=9.65156248824189 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286941a" bus1="82040015286941.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.3817176719557 kvar=12.1321790899274 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286942a" bus1="82040165286942.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=11.4764256540572 kvar=5.29922052138076 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286943a" bus1="82040265286943.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=9.90294015329969 kvar=4.55567466520726 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286944a" bus1="82039725286944.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=13.3886340114127 kvar=6.17979821707823 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286945a" bus1="82040415286945.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.9924294062816 kvar=12.4535927845767 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286946a" bus1="82040575286946.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=14.4618169624097 kvar=6.65644870513775 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5440862a" bus1="81479715440862.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=24.9775356749488 kvar=11.5231147265037 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5469845a" bus1="82032105469845.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=14.0411363760069 kvar=6.43132866900474 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5470133a" bus1="82034125470133.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=11.511347831044 kvar=5.27957236773379 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5472282a" bus1="87774405472282.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=8.17296685620955 kvar=3.85306946238757 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5479360a" bus1="81460535479360.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=8.72261004094265 kvar=4.04583724325021 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5491509a" bus1="88287355491509.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=8.86863611150458 kvar=4.10564003359217 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5499009a" bus1="82062715499009.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=22.9191509938156 kvar=10.5469021240448 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5485359a" bus1="88109845485359.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=8.68947717898727 kvar=4.02729288975623 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5502834a" bus1="82026575502834.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.348919832849 kvar=12.097445691433 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5505307a" bus1="82034555505307.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=35.2432252227411 kvar=16.1502837239133 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5535535a" bus1="89701935535535.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=18.1163603417851 kvar=8.40832768705896 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5537656a" bus1="89813615537656.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=11.2022423607757 kvar=5.1655520663268 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5547722a" bus1="90017985547722.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=12.0099518369644 kvar=5.73624245603996 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5551754a" bus1="82061675551754.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=16.1958533298397 kvar=7.480236483876 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5552038a" bus1="90190165552038.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=24.0211497330826 kvar=11.2874623475781 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5552309a" bus1="82024125552309.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=18.8925259951229 kvar=8.77690367606274 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5552553a" bus1="90214315552553.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=5.66590708461932 kvar=2.63371657479061 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5552819a" bus1="82032765552819.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=51.9432604907252 kvar=23.6841798396167 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5569878a" bus1="82055955569878.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=24.6330469711789 kvar=11.2777230958522 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5555964a" bus1="9030570555964.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=8.48188728435926 kvar=4.07964864050648 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5557353a" bus1="82044325557353.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.8726149520942 kvar=12.4642649821488 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5558213a" bus1="90349975558213.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=18.2290256590952 kvar=8.43204781734384 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5560489a" bus1="90409505560489.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=20.8314221710007 kvar=9.66060801676261 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5574596a" bus1="82031945574596.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=22.0024655773407 kvar=10.1298795780137 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5577671a" bus1="90938795577671.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=18.0223140622671 kvar=8.29973131848846 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286947a" bus1="82040855286947.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=11.2234825153993 kvar=5.17120442528782 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286958a" bus1="82031405286958.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=33.1880113828576 kvar=15.3227640105302 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286959a" bus1="82031445286959.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=41.5460791406569 kvar=19.4551565347435 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286960a" bus1="82033945286960.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=29.8980064396784 kvar=13.5655518226371 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286961a" bus1="97400945286961.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=43.5635957756759 kvar=20.1444362532852 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286962a" bus1="82034445286962.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=14.9098489093612 kvar=6.89683272712145 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286963a" bus1="82035255286963.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=19.7475179667586 kvar=9.08569381545913 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286964a" bus1="82036275286964.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=69.1433406448388 kvar=32.6602661569164 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286965a" bus1="82035485286965.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=34.8897556158969 kvar=16.240674221105 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286966a" bus1="82036045286966.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=30.9263391707713 kvar=14.4166432419043 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5286967a" bus1="82029725286967.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=11.0989864255527 kvar=5.10552975061353 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5647498a" bus1="93119985647498.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=0.852314647264632 kvar=0.398042185619277 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5688575a" bus1="82054155688575.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=16.2206131044412 kvar=7.32701171397305 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5675373a" bus1="93945325675373.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=11.8130049721185 kvar=5.50663136731866 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5323939a" bus1="84503635323939.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=13.2372308211419 kvar=6.13623514548706 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5702287a" bus1="90017935702287.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=0.232467300968505 kvar=0.111740407295068 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5713817a" bus1="82034385713817.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=6.75703620497873 kvar=3.20730095163243 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5719448a" bus1="95141555719448.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=7.85717870432947 kvar=3.72535227116687 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5333902a" bus1="85167275333902.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=26.2254249405443 kvar=12.1308659749718 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5740255a" bus1="82056945740255.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=14.5905864350407 kvar=6.64296649346629 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5740270a" bus1="96033635740270.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=12.2445576749837 kvar=5.5879303058405 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5744153a" bus1="96264655744153.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=16.4320475658323 kvar=7.61863096655744 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

New "Load.m1_trf_5444435a" bus1="81481405444435.1.2.3.4" phases=3 conn=Wye model=2 kv=0.380 kw=11.0902798793934 kvar=5.06299693555369 daily="CURVA" status=variable vmaxpu=1.5 vminpu=0.92

! Criação da seção de condutores

New "Linecode.100-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.100-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.100-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.100-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.100-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.100-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.100-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.100-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.101-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.101-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.101-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.101-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.102-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.102-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.102-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.102-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.10-31A_1" nphases=1 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.10-31A_2" nphases=2 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.10-31A_3" nphases=3 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.10-31A_4" nphases=4 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.103-71N_1" nphases=1 basefreq=60 r1=18.325 x1=0.494 units=km
normamps=35

New "Linecode.103-71N_2" nphases=2 basefreq=60 r1=18.325 x1=0.494 units=km
normamps=35

New "Linecode.103-71N_3" nphases=3 basefreq=60 r1=18.325 x1=0.494 units=km
normamps=35

New "Linecode.103-71N_4" nphases=4 basefreq=60 r1=18.325 x1=0.494 units=km
normamps=35

New "Linecode.104-71N_1" nphases=1 basefreq=60 r1=29.142 x1=0.513 units=km
normamps=25

New "Linecode.104-71N_2" nphases=2 basefreq=60 r1=29.142 x1=0.513 units=km
normamps=25

New "Linecode.104-71N_3" nphases=3 basefreq=60 r1=29.142 x1=0.513 units=km
normamps=25

New "Linecode.104-71N_4" nphases=4 basefreq=60 r1=29.142 x1=0.513 units=km
normamps=25

New "Linecode.105-71N_1" nphases=1 basefreq=60 r1=11.411 x1=0.52 units=km
normamps=65

New "Linecode.105-71N_2" nphases=2 basefreq=60 r1=11.411 x1=0.52 units=km
normamps=65

New "Linecode.105-71N_3" nphases=3 basefreq=60 r1=11.411 x1=0.52 units=km
normamps=65

New "Linecode.105-71N_4" nphases=4 basefreq=60 r1=11.411 x1=0.52 units=km
normamps=65

New "Linecode.10-61A_1" nphases=1 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.10-61A_2" nphases=2 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.10-61A_3" nphases=3 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.10-61A_4" nphases=4 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880

New "Linecode.106-71B_1" nphases=1 basefreq=60 r1=2.469 x1=0.6 units=km normamps=105
New "Linecode.106-71B_2" nphases=2 basefreq=60 r1=2.469 x1=0.6 units=km normamps=105
New "Linecode.106-71B_3" nphases=3 basefreq=60 r1=2.469 x1=0.6 units=km normamps=105
New "Linecode.106-71B_4" nphases=4 basefreq=60 r1=2.469 x1=0.6 units=km normamps=105
New "Linecode.106-71N_1" nphases=1 basefreq=60 r1=2.469 x1=0.6 units=km
normamps=105
New "Linecode.106-71N_2" nphases=2 basefreq=60 r1=2.469 x1=0.6 units=km
normamps=105
New "Linecode.106-71N_3" nphases=3 basefreq=60 r1=2.469 x1=0.6 units=km
normamps=105
New "Linecode.106-71N_4" nphases=4 basefreq=60 r1=2.469 x1=0.6 units=km
normamps=105
New "Linecode.10-71A_1" nphases=1 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880
New "Linecode.10-71A_2" nphases=2 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880
New "Linecode.10-71A_3" nphases=3 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880
New "Linecode.10-71A_4" nphases=4 basefreq=60 r1=0.119 x1=0.518 units=km
normamps=880
New "Linecode.10-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.10-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.10-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.10-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.10-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114
New "Linecode.10-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114
New "Linecode.10-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114
New "Linecode.10-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114
New "Linecode.107-42_1" nphases=1 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-42_2" nphases=2 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-42_3" nphases=3 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-42_4" nphases=4 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-44_1" nphases=1 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.107-44_2" nphases=2 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-44_3" nphases=3 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-44_4" nphases=4 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-51B_1" nphases=1 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-51B_2" nphases=2 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-51B_3" nphases=3 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.107-51B_4" nphases=4 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47
New "Linecode.108-43_1" nphases=1 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-43_2" nphases=2 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-43_3" nphases=3 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-43_4" nphases=4 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-44_1" nphases=1 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-44_2" nphases=2 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-44_3" nphases=3 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-44_4" nphases=4 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-51B_1" nphases=1 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-51B_2" nphases=2 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-51B_3" nphases=3 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.108-51B_4" nphases=4 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.109-44_1" nphases=1 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.109-44_2" nphases=2 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.109-44_3" nphases=3 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.109-44_4" nphases=4 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.109-51B_1" nphases=1 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.109-51B_2" nphases=2 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.109-51B_3" nphases=3 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.109-51B_4" nphases=4 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78
New "Linecode.110-44_1" nphases=1 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94
New "Linecode.110-44_2" nphases=2 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94
New "Linecode.110-44_3" nphases=3 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94
New "Linecode.110-44_4" nphases=4 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94
New "Linecode.110-51B_1" nphases=1 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94

New "Linecode.110-51B_2" nphases=2 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94
New "Linecode.110-51B_3" nphases=3 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94
New "Linecode.110-51B_4" nphases=4 basefreq=60 r1=0.991 x1=0.11 units=km normamps=94
New "Linecode.111-51B_1" nphases=1 basefreq=60 r1=0.732 x1=0.11 units=km
normamps=112
New "Linecode.111-51B_2" nphases=2 basefreq=60 r1=0.732 x1=0.11 units=km
normamps=112
New "Linecode.111-51B_3" nphases=3 basefreq=60 r1=0.732 x1=0.11 units=km
normamps=112
New "Linecode.111-51B_4" nphases=4 basefreq=60 r1=0.732 x1=0.11 units=km
normamps=112
New "Linecode.112-51B_1" nphases=1 basefreq=60 r1=0.506 x1=0.11 units=km
normamps=138
New "Linecode.112-51B_2" nphases=2 basefreq=60 r1=0.506 x1=0.11 units=km
normamps=138
New "Linecode.112-51B_3" nphases=3 basefreq=60 r1=0.506 x1=0.11 units=km
normamps=138
New "Linecode.112-51B_4" nphases=4 basefreq=60 r1=0.506 x1=0.11 units=km
normamps=138
New "Linecode.113-51B_1" nphases=1 basefreq=60 r1=0.365 x1=0.1 units=km normamps=164
New "Linecode.113-51B_2" nphases=2 basefreq=60 r1=0.365 x1=0.1 units=km normamps=164
New "Linecode.113-51B_3" nphases=3 basefreq=60 r1=0.365 x1=0.1 units=km normamps=164
New "Linecode.113-51B_4" nphases=4 basefreq=60 r1=0.365 x1=0.1 units=km normamps=164
New "Linecode.114-51B_1" nphases=1 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186
New "Linecode.114-51B_2" nphases=2 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186
New "Linecode.114-51B_3" nphases=3 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186
New "Linecode.114-51B_4" nphases=4 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186
New "Linecode.115-51B_1" nphases=1 basefreq=60 r1=0.236 x1=0.1 units=km normamps=210
New "Linecode.115-51B_2" nphases=2 basefreq=60 r1=0.236 x1=0.1 units=km normamps=210
New "Linecode.115-51B_3" nphases=3 basefreq=60 r1=0.236 x1=0.1 units=km normamps=210
New "Linecode.115-51B_4" nphases=4 basefreq=60 r1=0.236 x1=0.1 units=km normamps=210
New "Linecode.11-61A_1" nphases=1 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8
New "Linecode.11-61A_2" nphases=2 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8

New "Linecode.11-61A_3" nphases=3 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8

New "Linecode.11-61A_4" nphases=4 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8

New "Linecode.116-51B_1" nphases=1 basefreq=60 r1=0.188 x1=0.1 units=km normamps=236

New "Linecode.116-51B_2" nphases=2 basefreq=60 r1=0.188 x1=0.1 units=km normamps=236

New "Linecode.116-51B_3" nphases=3 basefreq=60 r1=0.188 x1=0.1 units=km normamps=236

New "Linecode.116-51B_4" nphases=4 basefreq=60 r1=0.188 x1=0.1 units=km normamps=236

New "Linecode.11-71A_1" nphases=1 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8

New "Linecode.11-71A_2" nphases=2 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8

New "Linecode.11-71A_3" nphases=3 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8

New "Linecode.11-71A_4" nphases=4 basefreq=60 r1=0.195 x1=0.402 units=km
normamps=502.8

New "Linecode.11-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.11-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.11-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.11-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.11-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.11-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.11-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.11-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.117-51B_1" nphases=1 basefreq=60 r1=0.143 x1=0.1 units=km normamps=272

New "Linecode.117-51B_2" nphases=2 basefreq=60 r1=0.143 x1=0.1 units=km normamps=272

New "Linecode.117-51B_3" nphases=3 basefreq=60 r1=0.143 x1=0.1 units=km normamps=272

New "Linecode.117-51B_4" nphases=4 basefreq=60 r1=0.143 x1=0.1 units=km normamps=272

New "Linecode.118-51M_1" nphases=1 basefreq=60 r1=0.991 x1=0.17 units=km
normamps=83

New "Linecode.118-51M_2" nphases=2 basefreq=60 r1=0.991 x1=0.17 units=km
normamps=83

New "Linecode.118-51M_3" nphases=3 basefreq=60 r1=0.991 x1=0.17 units=km
normamps=83

New "Linecode.118-51M_4" nphases=4 basefreq=60 r1=0.991 x1=0.17 units=km
normamps=83

New "Linecode.119-51M_1" nphases=1 basefreq=60 r1=0.732 x1=0.16 units=km
normamps=98

New "Linecode.119-51M_2" nphases=2 basefreq=60 r1=0.732 x1=0.16 units=km
normamps=98

New "Linecode.119-51M_3" nphases=3 basefreq=60 r1=0.732 x1=0.16 units=km
normamps=98

New "Linecode.119-51M_4" nphases=4 basefreq=60 r1=0.732 x1=0.16 units=km
normamps=98

New "Linecode.120-31M_1" nphases=1 basefreq=60 r1=0.506 x1=0.15 units=km
normamps=120

New "Linecode.120-31M_2" nphases=2 basefreq=60 r1=0.506 x1=0.15 units=km
normamps=120

New "Linecode.120-31M_3" nphases=3 basefreq=60 r1=0.506 x1=0.15 units=km
normamps=120

New "Linecode.120-31M_4" nphases=4 basefreq=60 r1=0.506 x1=0.15 units=km
normamps=120

New "Linecode.121-31M_1" nphases=1 basefreq=60 r1=0.365 x1=0.15 units=km
normamps=143

New "Linecode.121-31M_2" nphases=2 basefreq=60 r1=0.365 x1=0.15 units=km
normamps=143

New "Linecode.121-31M_3" nphases=3 basefreq=60 r1=0.365 x1=0.15 units=km
normamps=143

New "Linecode.121-31M_4" nphases=4 basefreq=60 r1=0.365 x1=0.15 units=km
normamps=143

New "Linecode.12-31A_1" nphases=1 basefreq=60 r1=0.165 x1=0.471 units=km
normamps=502

New "Linecode.12-31A_2" nphases=2 basefreq=60 r1=0.165 x1=0.471 units=km
normamps=502

New "Linecode.12-31A_3" nphases=3 basefreq=60 r1=0.165 x1=0.471 units=km
normamps=502

New "Linecode.12-31A_4" nphases=4 basefreq=60 r1=0.165 x1=0.471 units=km
normamps=502

New "Linecode.123-31M_1" nphases=1 basefreq=60 r1=0.236 x1=0.14 units=km
normamps=182

New "Linecode.123-31M_2" nphases=2 basefreq=60 r1=0.236 x1=0.14 units=km
normamps=182

New "Linecode.123-31M_3" nphases=3 basefreq=60 r1=0.236 x1=0.14 units=km normamps=182

New "Linecode.123-31M_4" nphases=4 basefreq=60 r1=0.236 x1=0.14 units=km normamps=182

New "Linecode.12-61A_1" nphases=1 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.12-61A_2" nphases=2 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.12-61A_3" nphases=3 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.12-61A_4" nphases=4 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.126-51M_1" nphases=1 basefreq=60 r1=0.115 x1=0.12 units=km normamps=305

New "Linecode.126-51M_2" nphases=2 basefreq=60 r1=0.115 x1=0.12 units=km normamps=305

New "Linecode.126-51M_3" nphases=3 basefreq=60 r1=0.115 x1=0.12 units=km normamps=305

New "Linecode.126-51M_4" nphases=4 basefreq=60 r1=0.115 x1=0.12 units=km normamps=305

New "Linecode.12-71A_1" nphases=1 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.12-71A_2" nphases=2 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.12-71A_3" nphases=3 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.12-71A_4" nphases=4 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.12-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.12-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.12-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.12-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.127-51B_1" nphases=1 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61

New "Linecode.127-51B_2" nphases=2 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61

New "Linecode.127-51B_3" nphases=3 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61

New "Linecode.127-51B_4" nphases=4 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61

New "Linecode.127-71_1" nphases=1 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61

New "Linecode.127-71_2" nphases=2 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61
New "Linecode.127-71_3" nphases=3 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61
New "Linecode.127-71_4" nphases=4 basefreq=60 r1=2.082 x1=0.12 units=km normamps=61
New "Linecode.128-51B_1" nphases=1 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.128-51B_2" nphases=2 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.128-51B_3" nphases=3 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.128-51B_4" nphases=4 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.128-71_1" nphases=1 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.128-71_2" nphases=2 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.128-71_3" nphases=3 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.128-71_4" nphases=4 basefreq=60 r1=1.308 x1=0.12 units=km normamps=79
New "Linecode.129-51B_1" nphases=1 basefreq=60 r1=0.827 x1=0.12 units=km
normamps=101
New "Linecode.129-51B_2" nphases=2 basefreq=60 r1=0.827 x1=0.12 units=km
normamps=101
New "Linecode.129-51B_3" nphases=3 basefreq=60 r1=0.827 x1=0.12 units=km
normamps=101
New "Linecode.129-51B_4" nphases=4 basefreq=60 r1=0.827 x1=0.12 units=km
normamps=101
New "Linecode.129-71_1" nphases=1 basefreq=60 r1=0.827 x1=0.12 units=km normamps=101
New "Linecode.129-71_2" nphases=2 basefreq=60 r1=0.827 x1=0.12 units=km normamps=101
New "Linecode.129-71_3" nphases=3 basefreq=60 r1=0.827 x1=0.12 units=km normamps=101
New "Linecode.129-71_4" nphases=4 basefreq=60 r1=0.827 x1=0.12 units=km normamps=101
New "Linecode.130-51B_1" nphases=1 basefreq=60 r1=0.596 x1=0.11 units=km
normamps=122
New "Linecode.130-51B_2" nphases=2 basefreq=60 r1=0.596 x1=0.11 units=km
normamps=122
New "Linecode.130-51B_3" nphases=3 basefreq=60 r1=0.596 x1=0.11 units=km
normamps=122
New "Linecode.130-51B_4" nphases=4 basefreq=60 r1=0.596 x1=0.11 units=km
normamps=122
New "Linecode.1-31M_1" nphases=1 basefreq=60 r1=0.195 x1=0.4 units=km normamps=419
New "Linecode.1-31M_2" nphases=2 basefreq=60 r1=0.195 x1=0.4 units=km normamps=419
New "Linecode.1-31M_3" nphases=3 basefreq=60 r1=0.195 x1=0.4 units=km normamps=419
New "Linecode.1-31M_4" nphases=4 basefreq=60 r1=0.195 x1=0.4 units=km normamps=419

New "Linecode.132-51B_1" nphases=1 basefreq=60 r1=0.305 x1=0.1 units=km normamps=178
New "Linecode.132-51B_2" nphases=2 basefreq=60 r1=0.305 x1=0.1 units=km normamps=178
New "Linecode.132-51B_3" nphases=3 basefreq=60 r1=0.305 x1=0.1 units=km normamps=178
New "Linecode.132-51B_4" nphases=4 basefreq=60 r1=0.305 x1=0.1 units=km normamps=178
New "Linecode.134-51B_1" nphases=1 basefreq=60 r1=0.175 x1=0.1 units=km normamps=240
New "Linecode.134-51B_2" nphases=2 basefreq=60 r1=0.175 x1=0.1 units=km normamps=240
New "Linecode.134-51B_3" nphases=3 basefreq=60 r1=0.175 x1=0.1 units=km normamps=240
New "Linecode.134-51B_4" nphases=4 basefreq=60 r1=0.175 x1=0.1 units=km normamps=240
New "Linecode.13-61A_1" nphases=1 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.13-61A_2" nphases=2 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.13-61A_3" nphases=3 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.13-61A_4" nphases=4 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.136-51B_1" nphases=1 basefreq=60 r1=0.114 x1=0.1 units=km normamps=304
New "Linecode.136-51B_2" nphases=2 basefreq=60 r1=0.114 x1=0.1 units=km normamps=304
New "Linecode.136-51B_3" nphases=3 basefreq=60 r1=0.114 x1=0.1 units=km normamps=304
New "Linecode.136-51B_4" nphases=4 basefreq=60 r1=0.114 x1=0.1 units=km normamps=304
New "Linecode.13-71A_1" nphases=1 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.13-71A_2" nphases=2 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.13-71A_3" nphases=3 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.13-71A_4" nphases=4 basefreq=60 r1=0.119 x1=0.528 units=km
normamps=562
New "Linecode.13-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.13-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.13-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.13-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.13-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203
New "Linecode.13-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203

New "Linecode.13-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203

New "Linecode.13-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203

New "Linecode.137-51B_1" nphases=1 basefreq=60 r1=0.087 x1=0.1 units=km normamps=351

New "Linecode.137-51B_2" nphases=2 basefreq=60 r1=0.087 x1=0.1 units=km normamps=351

New "Linecode.137-51B_3" nphases=3 basefreq=60 r1=0.087 x1=0.1 units=km normamps=351

New "Linecode.137-51B_4" nphases=4 basefreq=60 r1=0.087 x1=0.1 units=km normamps=351

New "Linecode.138-51M_1" nphases=1 basefreq=60 r1=0.596 x1=0.16 units=km
normamps=108

New "Linecode.138-51M_2" nphases=2 basefreq=60 r1=0.596 x1=0.16 units=km
normamps=108

New "Linecode.138-51M_3" nphases=3 basefreq=60 r1=0.596 x1=0.16 units=km
normamps=108

New "Linecode.138-51M_4" nphases=4 basefreq=60 r1=0.596 x1=0.16 units=km
normamps=108

New "Linecode.139-51M_1" nphases=1 basefreq=60 r1=0.441 x1=0.16 units=km
normamps=127

New "Linecode.139-51M_2" nphases=2 basefreq=60 r1=0.441 x1=0.16 units=km
normamps=127

New "Linecode.139-51M_3" nphases=3 basefreq=60 r1=0.441 x1=0.16 units=km
normamps=127

New "Linecode.139-51M_4" nphases=4 basefreq=60 r1=0.441 x1=0.16 units=km
normamps=127

New "Linecode.140-31M_1" nphases=1 basefreq=60 r1=0.305 x1=0.15 units=km
normamps=154

New "Linecode.140-31M_2" nphases=2 basefreq=60 r1=0.305 x1=0.15 units=km
normamps=154

New "Linecode.140-31M_3" nphases=3 basefreq=60 r1=0.305 x1=0.15 units=km
normamps=154

New "Linecode.140-31M_4" nphases=4 basefreq=60 r1=0.305 x1=0.15 units=km
normamps=154

New "Linecode.141-31M_1" nphases=1 basefreq=60 r1=0.22 x1=0.14 units=km
normamps=184

New "Linecode.141-31M_2" nphases=2 basefreq=60 r1=0.22 x1=0.14 units=km
normamps=184

New "Linecode.141-31M_3" nphases=3 basefreq=60 r1=0.22 x1=0.14 units=km
normamps=184

New "Linecode.141-31M_4" nphases=4 basefreq=60 r1=0.22 x1=0.14 units=km
normamps=184

New "Linecode.142-51M_1" nphases=1 basefreq=60 r1=0.175 x1=0.13 units=km
normamps=209

New "Linecode.142-51M_2" nphases=2 basefreq=60 r1=0.175 x1=0.13 units=km
normamps=209

New "Linecode.142-51M_3" nphases=3 basefreq=60 r1=0.175 x1=0.13 units=km
normamps=209

New "Linecode.142-51M_4" nphases=4 basefreq=60 r1=0.175 x1=0.13 units=km
normamps=209

New "Linecode.14-31A_1" nphases=1 basefreq=60 r1=0.486 x1=0.564 units=km
normamps=234.3

New "Linecode.14-31A_2" nphases=2 basefreq=60 r1=0.486 x1=0.564 units=km
normamps=234.3

New "Linecode.14-31A_3" nphases=3 basefreq=60 r1=0.486 x1=0.564 units=km
normamps=234.3

New "Linecode.14-31A_4" nphases=4 basefreq=60 r1=0.486 x1=0.564 units=km
normamps=234.3

New "Linecode.143-31M_1" nphases=1 basefreq=60 r1=0.142 x1=0.13 units=km
normamps=234

New "Linecode.143-31M_2" nphases=2 basefreq=60 r1=0.142 x1=0.13 units=km
normamps=234

New "Linecode.143-31M_3" nphases=3 basefreq=60 r1=0.142 x1=0.13 units=km
normamps=234

New "Linecode.143-31M_4" nphases=4 basefreq=60 r1=0.142 x1=0.13 units=km
normamps=234

New "Linecode.144-31M_1" nphases=1 basefreq=60 r1=0.114 x1=0.13 units=km
normamps=263

New "Linecode.144-31M_2" nphases=2 basefreq=60 r1=0.114 x1=0.13 units=km
normamps=263

New "Linecode.144-31M_3" nphases=3 basefreq=60 r1=0.114 x1=0.13 units=km
normamps=263

New "Linecode.144-31M_4" nphases=4 basefreq=60 r1=0.114 x1=0.13 units=km
normamps=263

New "Linecode.14-61A_1" nphases=1 basefreq=60 r1=0.486 x1=0.564 units=km
normamps=234.3

New "Linecode.14-61A_2" nphases=2 basefreq=60 r1=0.486 x1=0.564 units=km
normamps=234.3

New "Linecode.14-61A_3" nphases=3 basefreq=60 r1=0.486 x1=0.564 units=km
normamps=234.3

New "Linecode.14-61A_4" nphases=4 basefreq=60 r1=0.486 x1=0.564 units=km normamps=234.3

New "Linecode.146-51M_1" nphases=1 basefreq=60 r1=0.056 x1=0.12 units=km normamps=382

New "Linecode.146-51M_2" nphases=2 basefreq=60 r1=0.056 x1=0.12 units=km normamps=382

New "Linecode.146-51M_3" nphases=3 basefreq=60 r1=0.056 x1=0.12 units=km normamps=382

New "Linecode.146-51M_4" nphases=4 basefreq=60 r1=0.056 x1=0.12 units=km normamps=382

New "Linecode.14-71A_1" nphases=1 basefreq=60 r1=0.486 x1=0.564 units=km normamps=234.3

New "Linecode.14-71A_2" nphases=2 basefreq=60 r1=0.486 x1=0.564 units=km normamps=234.3

New "Linecode.14-71A_3" nphases=3 basefreq=60 r1=0.486 x1=0.564 units=km normamps=234.3

New "Linecode.14-71A_4" nphases=4 basefreq=60 r1=0.486 x1=0.564 units=km normamps=234.3

New "Linecode.15-61A_1" nphases=1 basefreq=60 r1=0.386 x1=0.421 units=km normamps=396

New "Linecode.15-61A_2" nphases=2 basefreq=60 r1=0.386 x1=0.421 units=km normamps=396

New "Linecode.15-61A_3" nphases=3 basefreq=60 r1=0.386 x1=0.421 units=km normamps=396

New "Linecode.15-61A_4" nphases=4 basefreq=60 r1=0.386 x1=0.421 units=km normamps=396

New "Linecode.15-71B_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.15-71B_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.15-71B_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.15-71B_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.1-61A_1" nphases=1 basefreq=60 r1=0.195 x1=0.457 units=km normamps=451.8

New "Linecode.1-61A_2" nphases=2 basefreq=60 r1=0.195 x1=0.457 units=km normamps=451.8

New "Linecode.1-61A_3" nphases=3 basefreq=60 r1=0.195 x1=0.457 units=km normamps=451.8

New "Linecode.1-61A_4" nphases=4 basefreq=60 r1=0.195 x1=0.457 units=km normamps=451.8

New "Linecode.16-61A_1" nphases=1 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.16-61A_2" nphases=2 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.16-61A_3" nphases=3 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.16-61A_4" nphases=4 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.16-71A_1" nphases=1 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.16-71A_2" nphases=2 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.16-71A_3" nphases=3 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.16-71A_4" nphases=4 basefreq=60 r1=0.217 x1=0.461 units=km normamps=418.4

New "Linecode.18-71B_1" nphases=1 basefreq=60 r1=0.306 x1=0.42 units=km normamps=314

New "Linecode.18-71B_2" nphases=2 basefreq=60 r1=0.306 x1=0.42 units=km normamps=314

New "Linecode.18-71B_3" nphases=3 basefreq=60 r1=0.306 x1=0.42 units=km normamps=314

New "Linecode.18-71B_4" nphases=4 basefreq=60 r1=0.306 x1=0.42 units=km normamps=314

New "Linecode.22-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.22-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.22-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.22-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.22-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.22-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.22-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.22-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.2-31M_1" nphases=1 basefreq=60 r1=0.245 x1=0.42 units=km normamps=362

New "Linecode.2-31M_2" nphases=2 basefreq=60 r1=0.245 x1=0.42 units=km normamps=362

New "Linecode.2-31M_3" nphases=3 basefreq=60 r1=0.245 x1=0.42 units=km normamps=362

New "Linecode.2-31M_4" nphases=4 basefreq=60 r1=0.245 x1=0.42 units=km normamps=362

New "Linecode.23-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.23-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.23-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.23-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.23-71N_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203
New "Linecode.23-71N_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203
New "Linecode.23-71N_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203
New "Linecode.23-71N_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203
New "Linecode.24-71N_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235
New "Linecode.24-71N_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235
New "Linecode.24-71N_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235
New "Linecode.24-71N_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235
New "Linecode.26-44B_1" nphases=1 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100
New "Linecode.26-44B_2" nphases=2 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100
New "Linecode.26-44B_3" nphases=3 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100
New "Linecode.26-44B_4" nphases=4 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100
New "Linecode.27-44B_1" nphases=1 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157
New "Linecode.27-44B_2" nphases=2 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157
New "Linecode.27-44B_3" nphases=3 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157
New "Linecode.27-44B_4" nphases=4 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157
New "Linecode.28-44B_1" nphases=1 basefreq=60 r1=0.365 x1=0.1 units=km normamps=196
New "Linecode.28-44B_2" nphases=2 basefreq=60 r1=0.365 x1=0.1 units=km normamps=196
New "Linecode.28-44B_3" nphases=3 basefreq=60 r1=0.365 x1=0.1 units=km normamps=196
New "Linecode.28-44B_4" nphases=4 basefreq=60 r1=0.365 x1=0.1 units=km normamps=196
New "Linecode.29-31M_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114
New "Linecode.29-31M_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.29-31M_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.29-31M_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.29-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.29-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.29-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.29-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.30-31M_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.30-31M_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.30-31M_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.30-31M_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.31-31M_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235

New "Linecode.31-31M_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235

New "Linecode.31-31M_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235

New "Linecode.31-31M_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km
normamps=235

New "Linecode.32-31M_1" nphases=1 basefreq=60 r1=0.306 x1=0.42 units=km
normamps=314

New "Linecode.32-31M_2" nphases=2 basefreq=60 r1=0.306 x1=0.42 units=km
normamps=314

New "Linecode.32-31M_3" nphases=3 basefreq=60 r1=0.306 x1=0.42 units=km
normamps=314

New "Linecode.32-31M_4" nphases=4 basefreq=60 r1=0.306 x1=0.42 units=km
normamps=314

New "Linecode.3-31A_1" nphases=1 basefreq=60 r1=0.245 x1=0.498 units=km
normamps=384.9

New "Linecode.3-31A_2" nphases=2 basefreq=60 r1=0.245 x1=0.498 units=km
normamps=384.9

New "Linecode.3-31A_3" nphases=3 basefreq=60 r1=0.245 x1=0.498 units=km
normamps=384.9

New "Linecode.3-31A_4" nphases=4 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.33-31M_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-31M_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-31M_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-31M_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.33-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.34-14M_1" nphases=1 basefreq=60 r1=0.289 x1=0.27 units=km normamps=401

New "Linecode.34-14M_2" nphases=2 basefreq=60 r1=0.289 x1=0.27 units=km normamps=401

New "Linecode.34-14M_3" nphases=3 basefreq=60 r1=0.289 x1=0.27 units=km normamps=401

New "Linecode.34-14M_4" nphases=4 basefreq=60 r1=0.289 x1=0.27 units=km normamps=401

New "Linecode.35-14M_1" nphases=1 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.35-14M_2" nphases=2 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.35-14M_3" nphases=3 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.35-14M_4" nphases=4 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.36-14M_1" nphases=1 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.36-14M_2" nphases=2 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.36-14M_3" nphases=3 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.36-14M_4" nphases=4 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.3-61A_1" nphases=1 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-61A_2" nphases=2 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-61A_3" nphases=3 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-61A_4" nphases=4 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-71A_1" nphases=1 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-71A_2" nphases=2 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-71A_3" nphases=3 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-71A_4" nphases=4 basefreq=60 r1=0.245 x1=0.498 units=km normamps=384.9

New "Linecode.3-71N_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.3-71N_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.3-71N_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.3-71N_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.38-14M_1" nphases=1 basefreq=60 r1=0.506 x1=0.31 units=km normamps=282

New "Linecode.38-14M_2" nphases=2 basefreq=60 r1=0.506 x1=0.31 units=km normamps=282

New "Linecode.38-14M_3" nphases=3 basefreq=60 r1=0.506 x1=0.31 units=km normamps=282

New "Linecode.38-14M_4" nphases=4 basefreq=60 r1=0.506 x1=0.31 units=km normamps=282

New "Linecode.39-31M_1" nphases=1 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-31M_2" nphases=2 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-31M_3" nphases=3 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-31M_4" nphases=4 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.39-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.40-31M_1" nphases=1 basefreq=60 r1=0.613 x1=0.44 units=km normamps=220

New "Linecode.40-31M_2" nphases=2 basefreq=60 r1=0.613 x1=0.44 units=km normamps=220

New "Linecode.40-31M_3" nphases=3 basefreq=60 r1=0.613 x1=0.44 units=km normamps=220

New "Linecode.40-31M_4" nphases=4 basefreq=60 r1=0.613 x1=0.44 units=km normamps=220

New "Linecode.41-31M_1" nphases=1 basefreq=60 r1=0.486 x1=0.43 units=km normamps=250

New "Linecode.41-31M_2" nphases=2 basefreq=60 r1=0.486 x1=0.43 units=km normamps=250

New "Linecode.41-31M_3" nphases=3 basefreq=60 r1=0.486 x1=0.43 units=km normamps=250

New "Linecode.41-31M_4" nphases=4 basefreq=60 r1=0.486 x1=0.43 units=km normamps=250

New "Linecode.42-31M_1" nphases=1 basefreq=60 r1=0.306 x1=0.41 units=km normamps=330

New "Linecode.42-31M_2" nphases=2 basefreq=60 r1=0.306 x1=0.41 units=km normamps=330

New "Linecode.42-31M_3" nphases=3 basefreq=60 r1=0.306 x1=0.41 units=km
normamps=330

New "Linecode.42-31M_4" nphases=4 basefreq=60 r1=0.306 x1=0.41 units=km
normamps=330

New "Linecode.43-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.43-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.43-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.43-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.43-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.47 units=km
normamps=152

New "Linecode.43-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.47 units=km
normamps=152

New "Linecode.43-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.47 units=km
normamps=152

New "Linecode.43-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.47 units=km
normamps=152

New "Linecode.443-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.443-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.443-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.443-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.443-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.443-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.443-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.443-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.444-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.444-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.444-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.444-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.445-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.445-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.445-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.445-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.446-44B_1" nphases=1 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.446-44B_2" nphases=2 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.446-44B_3" nphases=3 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.446-44B_4" nphases=4 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.44-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.44-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.44-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.44-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.448-71B_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.448-71B_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.448-71B_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.448-71B_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.451-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.451-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.451-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.451-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.452-71B_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.452-71B_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.452-71B_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.452-71B_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.45-44B_1" nphases=1 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100

New "Linecode.45-44B_2" nphases=2 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100

New "Linecode.45-44B_3" nphases=3 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100

New "Linecode.45-44B_4" nphases=4 basefreq=60 r1=0.991 x1=0.1 units=km normamps=100

New "Linecode.457-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.457-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.457-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.457-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.458-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.458-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.458-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.458-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.460-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.460-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.460-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.460-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.461-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.461-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.461-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.461-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.462-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.462-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.462-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.462-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.46-44B_1" nphases=1 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157

New "Linecode.46-44B_2" nphases=2 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157

New "Linecode.46-44B_3" nphases=3 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157

New "Linecode.46-44B_4" nphases=4 basefreq=60 r1=0.506 x1=0.1 units=km normamps=157

New "Linecode.464-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.464-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.464-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.464-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.470-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.470-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.470-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.470-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.4-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.4-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.4-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.4-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.472-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.472-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.472-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.472-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.473-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.473-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.473-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.473-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.475-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.475-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.475-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.475-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.476-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.476-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.476-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.476-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.477-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.477-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.477-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.477-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.478-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.478-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.478-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.478-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.484-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.484-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.484-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.484-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.488-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.488-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.488-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.488-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.489-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.489-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.489-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.489-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.490-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.490-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.490-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.490-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.491-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.491-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.491-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.491-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.493-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.493-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.493-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.493-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.494-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.494-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.494-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.494-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.496-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.496-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.496-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.496-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.49-71N_1" nphases=1 basefreq=60 r1=1.564 x1=0.5 units=km normamps=95

New "Linecode.49-71N_2" nphases=2 basefreq=60 r1=1.564 x1=0.5 units=km normamps=95

New "Linecode.49-71N_3" nphases=3 basefreq=60 r1=1.564 x1=0.5 units=km normamps=95

New "Linecode.49-71N_4" nphases=4 basefreq=60 r1=1.564 x1=0.5 units=km normamps=95

New "Linecode.498-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.498-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.498-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.498-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.500-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.500-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.500-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.500-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.50-14M_1" nphases=1 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.50-14M_2" nphases=2 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.50-14M_3" nphases=3 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.50-14M_4" nphases=4 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.501-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.501-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.501-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.501-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.502-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.502-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.502-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.502-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.503-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.503-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.503-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.503-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.504-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.504-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.504-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.504-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.505-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.505-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.505-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.505-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.506-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.506-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.506-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.506-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.508-31M_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.508-31M_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.508-31M_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.508-31M_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.508-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.508-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.508-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.508-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.510-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.510-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.510-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.510-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.51-14M_1" nphases=1 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.51-14M_2" nphases=2 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.51-14M_3" nphases=3 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.51-14M_4" nphases=4 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.513-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.513-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.513-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.513-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.514-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.514-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.514-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.514-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.515-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.515-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.515-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.515-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.520-71B_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.520-71B_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.520-71B_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.520-71B_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.521-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.521-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.521-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.521-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.522-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.522-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.522-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.522-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.52-31M_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.52-31M_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.52-31M_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.52-31M_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.524-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.524-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.524-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.524-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.524-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=170

New "Linecode.524-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=170

New "Linecode.524-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=170

New "Linecode.524-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=170

New "Linecode.525-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.525-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.525-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.525-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.526-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.526-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.526-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.526-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.527-71B_1" nphases=1 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.527-71B_2" nphases=2 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.527-71B_3" nphases=3 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.527-71B_4" nphases=4 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.527-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.528 units=km normamps=25

New "Linecode.527-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.528 units=km normamps=25

New "Linecode.527-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.528 units=km normamps=25

New "Linecode.527-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.528 units=km normamps=25

New "Linecode.529-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.529-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.529-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.529-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.531-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.531-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.531-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.531-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.531-71N_1" nphases=1 basefreq=60 r1=0.613 x1=0.47 units=km normamps=152

New "Linecode.531-71N_2" nphases=2 basefreq=60 r1=0.613 x1=0.47 units=km normamps=152

New "Linecode.531-71N_3" nphases=3 basefreq=60 r1=0.613 x1=0.47 units=km normamps=152

New "Linecode.531-71N_4" nphases=4 basefreq=60 r1=0.613 x1=0.47 units=km normamps=152

New "Linecode.5-31A_1" nphases=1 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-31A_2" nphases=2 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-31A_3" nphases=3 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-31A_4" nphases=4 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.532-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.532-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.532-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.532-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.53-31M_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.53-31M_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.53-31M_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.53-31M_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.533-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.533-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.533-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.533-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.534-71N_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.534-71N_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.534-71N_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.534-71N_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.535-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.535-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.535-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.535-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.536-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.536-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.536-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.536-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.537-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.537-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.537-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.537-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.538-71N_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.538-71N_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.538-71N_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.538-71N_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.539-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.539-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.539-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.539-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.540-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.540-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.540-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.540-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.541-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.541-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.541-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.541-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.542-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.542-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.542-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.542-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.54-31M_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.54-31M_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.54-31M_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.54-31M_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.543-71N_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.543-71N_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.543-71N_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.543-71N_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.544-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.544-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.544-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.544-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.545-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.545-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.545-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.545-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.546-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.546-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.546-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.546-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.547-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.547-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.547-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.547-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.547-71N_1" nphases=1 basefreq=60 r1=2.389 x1=0.47 units=km normamps=230

New "Linecode.547-71N_2" nphases=2 basefreq=60 r1=2.389 x1=0.47 units=km normamps=230

New "Linecode.547-71N_3" nphases=3 basefreq=60 r1=2.389 x1=0.47 units=km normamps=230

New "Linecode.547-71N_4" nphases=4 basefreq=60 r1=2.389 x1=0.47 units=km normamps=230

New "Linecode.549-71N_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.549-71N_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.549-71N_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.549-71N_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.550-71B_1" nphases=1 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.550-71B_2" nphases=2 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.550-71B_3" nphases=3 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.550-71B_4" nphases=4 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.550-71N_1" nphases=1 basefreq=60 r1=29.142 x1=0.528 units=km normamps=25

New "Linecode.550-71N_2" nphases=2 basefreq=60 r1=29.142 x1=0.528 units=km normamps=25

New "Linecode.550-71N_3" nphases=3 basefreq=60 r1=29.142 x1=0.528 units=km normamps=25

New "Linecode.550-71N_4" nphases=4 basefreq=60 r1=29.142 x1=0.528 units=km normamps=25

New "Linecode.551-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.551-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.551-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.551-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.552-71B_1" nphases=1 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.552-71B_2" nphases=2 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.552-71B_3" nphases=3 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.552-71B_4" nphases=4 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.55-31M_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.55-31M_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.55-31M_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.55-31M_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.553-44B_1" nphases=1 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.553-44B_2" nphases=2 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.553-44B_3" nphases=3 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.553-44B_4" nphases=4 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.554-31M_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.554-31M_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.554-31M_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.554-31M_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.554-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.554-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.554-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.554-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.554-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.554-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.554-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.554-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152

New "Linecode.555-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.555-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.555-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.555-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.555-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.555-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.555-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.555-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km
normamps=114

New "Linecode.556-31M_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.556-31M_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.556-31M_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.556-31M_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.556-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km
normamps=203

New "Linecode.556-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.556-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.556-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.558-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.558-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.558-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.558-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.5-61A_1" nphases=1 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-61A_2" nphases=2 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-61A_3" nphases=3 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-61A_4" nphases=4 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.562-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.562-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.562-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.562-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.563-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.563-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.563-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.563-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.56-44B_1" nphases=1 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.56-44B_2" nphases=2 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.56-44B_3" nphases=3 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.56-44B_4" nphases=4 basefreq=60 r1=0.732 x1=0.1 units=km normamps=122

New "Linecode.565-71B_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.565-71B_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.565-71B_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.565-71B_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.566-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.566-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.566-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.566-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.567-71B_1" nphases=1 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.567-71B_2" nphases=2 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.567-71B_3" nphases=3 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.567-71B_4" nphases=4 basefreq=60 r1=29.142 x1=0.9 units=km normamps=25

New "Linecode.568-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.568-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.568-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.568-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.571-71B_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.571-71B_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.571-71B_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.571-71B_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235

New "Linecode.5-71A_1" nphases=1 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-71A_2" nphases=2 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-71A_3" nphases=3 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-71A_4" nphases=4 basefreq=60 r1=0.306 x1=0.478 units=km normamps=365

New "Linecode.5-71B_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.5-71B_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.5-71B_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.5-71B_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.5-71N_1" nphases=1 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.5-71N_2" nphases=2 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.5-71N_3" nphases=3 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.5-71N_4" nphases=4 basefreq=60 r1=2.389 x1=0.52 units=km normamps=90

New "Linecode.577-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.577-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.577-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.577-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170

New "Linecode.580-51B_1" nphases=1 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.580-51B_2" nphases=2 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.580-51B_3" nphases=3 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.580-51B_4" nphases=4 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.581-51B_1" nphases=1 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61

New "Linecode.581-51B_2" nphases=2 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61

New "Linecode.581-51B_3" nphases=3 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61

New "Linecode.581-51B_4" nphases=4 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61

New "Linecode.582-51B_1" nphases=1 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.582-51B_2" nphases=2 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.582-51B_3" nphases=3 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.582-51B_4" nphases=4 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.583-51B_1" nphases=1 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.583-51B_2" nphases=2 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.583-51B_3" nphases=3 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.583-51B_4" nphases=4 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.584-51B_1" nphases=1 basefreq=60 r1=0.506 x1=0.11 units=km normamps=138

New "Linecode.584-51B_2" nphases=2 basefreq=60 r1=0.506 x1=0.11 units=km normamps=138

New "Linecode.584-51B_3" nphases=3 basefreq=60 r1=0.506 x1=0.11 units=km normamps=138

New "Linecode.584-51B_4" nphases=4 basefreq=60 r1=0.506 x1=0.11 units=km normamps=138

New "Linecode.585-51B_1" nphases=1 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186

New "Linecode.585-51B_2" nphases=2 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186

New "Linecode.585-51B_3" nphases=3 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186

New "Linecode.585-51B_4" nphases=4 basefreq=60 r1=0.289 x1=0.1 units=km normamps=186

New "Linecode.58-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.58-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.58-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.58-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.59-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.59-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.59-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.59-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.59-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.59-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.59-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.59-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.60-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.60-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.60-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.60-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.60-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152
New "Linecode.60-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152
New "Linecode.60-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152
New "Linecode.60-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km
normamps=152
New "Linecode.61-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.61-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.61-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.61-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.62-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120
New "Linecode.62-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120
New "Linecode.62-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120
New "Linecode.62-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120
New "Linecode.64-71B_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170
New "Linecode.64-71B_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170
New "Linecode.64-71B_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170
New "Linecode.64-71B_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=170
New "Linecode.65-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.65-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.65-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.65-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.66-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.66-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.66-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.66-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.66-71N_1" nphases=1 basefreq=60 r1=0.984 x1=0.47 units=km
normamps=230

New "Linecode.66-71N_2" nphases=2 basefreq=60 r1=0.984 x1=0.47 units=km normamps=230

New "Linecode.66-71N_3" nphases=3 basefreq=60 r1=0.984 x1=0.47 units=km normamps=230

New "Linecode.66-71N_4" nphases=4 basefreq=60 r1=0.984 x1=0.47 units=km normamps=230

New "Linecode.6-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.6-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.6-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.6-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.67-44B_1" nphases=1 basefreq=60 r1=1.369 x1=0.1 units=km normamps=80

New "Linecode.67-44B_2" nphases=2 basefreq=60 r1=1.369 x1=0.1 units=km normamps=80

New "Linecode.67-44B_3" nphases=3 basefreq=60 r1=1.369 x1=0.1 units=km normamps=80

New "Linecode.67-44B_4" nphases=4 basefreq=60 r1=1.369 x1=0.1 units=km normamps=80

New "Linecode.68-44B_1" nphases=1 basefreq=60 r1=2.179 x1=0.1 units=km normamps=59

New "Linecode.68-44B_2" nphases=2 basefreq=60 r1=2.179 x1=0.1 units=km normamps=59

New "Linecode.68-44B_3" nphases=3 basefreq=60 r1=2.179 x1=0.1 units=km normamps=59

New "Linecode.68-44B_4" nphases=4 basefreq=60 r1=2.179 x1=0.1 units=km normamps=59

New "Linecode.69-44B_1" nphases=1 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.69-44B_2" nphases=2 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.69-44B_3" nphases=3 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.69-44B_4" nphases=4 basefreq=60 r1=3.514 x1=0.1 units=km normamps=44

New "Linecode.700-14M_1" nphases=1 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.700-14M_2" nphases=2 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.700-14M_3" nphases=3 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.700-14M_4" nphases=4 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.70-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.70-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.70-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.70-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.71-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.71-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.71-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.71-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.72-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.72-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.72-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.72-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.7-31A_1" nphases=1 basefreq=60 r1=0.195 x1=0.457 units=km
normamps=451.8
New "Linecode.7-31A_2" nphases=2 basefreq=60 r1=0.195 x1=0.457 units=km
normamps=451.8
New "Linecode.7-31A_3" nphases=3 basefreq=60 r1=0.195 x1=0.457 units=km
normamps=451.8
New "Linecode.7-31A_4" nphases=4 basefreq=60 r1=0.195 x1=0.457 units=km
normamps=451.8
New "Linecode.73-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.73-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.73-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.73-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152
New "Linecode.74-31M_1" nphases=1 basefreq=60 r1=18.325 x1=0.75 units=km
normamps=35
New "Linecode.74-31M_2" nphases=2 basefreq=60 r1=18.325 x1=0.75 units=km
normamps=35
New "Linecode.74-31M_3" nphases=3 basefreq=60 r1=18.325 x1=0.75 units=km
normamps=35
New "Linecode.74-31M_4" nphases=4 basefreq=60 r1=18.325 x1=0.75 units=km
normamps=35
New "Linecode.744-51B_1" nphases=1 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.744-51B_2" nphases=2 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.744-51B_3" nphases=3 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.744-51B_4" nphases=4 basefreq=60 r1=2.179 x1=0.12 units=km normamps=61
New "Linecode.75-31M_1" nphases=1 basefreq=60 r1=29.142 x1=0.8 units=km normamps=25
New "Linecode.75-31M_2" nphases=2 basefreq=60 r1=29.142 x1=0.8 units=km normamps=25
New "Linecode.75-31M_3" nphases=3 basefreq=60 r1=29.142 x1=0.8 units=km normamps=25
New "Linecode.75-31M_4" nphases=4 basefreq=60 r1=29.142 x1=0.8 units=km normamps=25

New "Linecode.760-51B_1" nphases=1 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.760-51B_2" nphases=2 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.760-51B_3" nphases=3 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.760-51B_4" nphases=4 basefreq=60 r1=0.732 x1=0.11 units=km normamps=112

New "Linecode.7-61A_1" nphases=1 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.7-61A_2" nphases=2 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.7-61A_3" nphases=3 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.7-61A_4" nphases=4 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.76-31M_1" nphases=1 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.76-31M_2" nphases=2 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.76-31M_3" nphases=3 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.76-31M_4" nphases=4 basefreq=60 r1=11.411 x1=0.52 units=km normamps=65

New "Linecode.7-71A_1" nphases=1 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.7-71A_2" nphases=2 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.7-71A_3" nphases=3 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.7-71A_4" nphases=4 basefreq=60 r1=0.165 x1=0.471 units=km normamps=502

New "Linecode.7-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.7-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.7-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.7-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.77-71N_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.77-71N_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.77-71N_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.77-71N_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.780-51B_1" nphases=1 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.780-51B_2" nphases=2 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.780-51B_3" nphases=3 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.780-51B_4" nphases=4 basefreq=60 r1=3.514 x1=0.13 units=km normamps=47

New "Linecode.78-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.78-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.78-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.78-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.78-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.78-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.78-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.78-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.47 units=km normamps=125

New "Linecode.79-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.79-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.79-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.79-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.79-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.79-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.79-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.79-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=185

New "Linecode.800-51B_1" nphases=1 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.800-51B_2" nphases=2 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.800-51B_3" nphases=3 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.800-51B_4" nphases=4 basefreq=60 r1=1.369 x1=0.12 units=km normamps=78

New "Linecode.801-14M_1" nphases=1 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.801-14M_2" nphases=2 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.801-14M_3" nphases=3 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.801-14M_4" nphases=4 basefreq=60 r1=0.732 x1=0.31 units=km normamps=225

New "Linecode.802-14M_1" nphases=1 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.802-14M_2" nphases=2 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.802-14M_3" nphases=3 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.802-14M_4" nphases=4 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.803-14M_1" nphases=1 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.803-14M_2" nphases=2 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.803-14M_3" nphases=3 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.803-14M_4" nphases=4 basefreq=60 r1=0.236 x1=0.27 units=km normamps=456

New "Linecode.80-71N_1" nphases=1 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.80-71N_2" nphases=2 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.80-71N_3" nphases=3 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.80-71N_4" nphases=4 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.81-71B_1" nphases=1 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.81-71B_2" nphases=2 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.81-71B_3" nphases=3 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.81-71B_4" nphases=4 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.821-51M_1" nphases=1 basefreq=60 r1=0.305 x1=0.15 units=km normamps=154

New "Linecode.821-51M_2" nphases=2 basefreq=60 r1=0.305 x1=0.15 units=km normamps=154

New "Linecode.821-51M_3" nphases=3 basefreq=60 r1=0.305 x1=0.15 units=km normamps=154

New "Linecode.821-51M_4" nphases=4 basefreq=60 r1=0.305 x1=0.15 units=km normamps=154

New "Linecode.82-71B_1" nphases=1 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.82-71B_2" nphases=2 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.82-71B_3" nphases=3 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.82-71B_4" nphases=4 basefreq=60 r1=2.469 x1=0.5 units=km normamps=95

New "Linecode.841-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.841-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.841-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.841-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.841-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.47 units=km normamps=152

New "Linecode.841-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.47 units=km normamps=152

New "Linecode.841-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.47 units=km normamps=152

New "Linecode.841-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.47 units=km normamps=152

New "Linecode.84-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.84-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.84-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.84-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.85-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.85-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.85-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.85-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.865-31M_1" nphases=1 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.865-31M_2" nphases=2 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.865-31M_3" nphases=3 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.865-31M_4" nphases=4 basefreq=60 r1=0.365 x1=0.28 units=km normamps=345

New "Linecode.866-31M_1" nphases=1 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.866-31M_2" nphases=2 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.866-31M_3" nphases=3 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.866-31M_4" nphases=4 basefreq=60 r1=0.188 x1=0.26 units=km normamps=525

New "Linecode.86-71B_1" nphases=1 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.86-71B_2" nphases=2 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.86-71B_3" nphases=3 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.86-71B_4" nphases=4 basefreq=60 r1=1.564 x1=0.51 units=km normamps=120

New "Linecode.86-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.51 units=km normamps=120

New "Linecode.86-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.51 units=km normamps=120

New "Linecode.86-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.51 units=km normamps=120

New "Linecode.86-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.51 units=km normamps=120

New "Linecode.867-31M_1" nphases=1 basefreq=60 r1=0.245 x1=0.46 units=km normamps=455

New "Linecode.867-31M_2" nphases=2 basefreq=60 r1=0.245 x1=0.46 units=km normamps=455

New "Linecode.867-31M_3" nphases=3 basefreq=60 r1=0.245 x1=0.46 units=km normamps=455

New "Linecode.867-31M_4" nphases=4 basefreq=60 r1=0.245 x1=0.46 units=km normamps=455

New "Linecode.8-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.8-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.8-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.8-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230

New "Linecode.87-71B_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.87-71B_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.87-71B_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.87-71B_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.88-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.88-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.88-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.88-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.47 units=km normamps=152

New "Linecode.89-31M_1" nphases=1 basefreq=60 r1=0.975 x1=0.46 units=km normamps=160

New "Linecode.89-31M_2" nphases=2 basefreq=60 r1=0.975 x1=0.46 units=km normamps=160

New "Linecode.89-31M_3" nphases=3 basefreq=60 r1=0.975 x1=0.46 units=km normamps=160

New "Linecode.89-31M_4" nphases=4 basefreq=60 r1=0.975 x1=0.46 units=km normamps=160

New "Linecode.90-71N_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.90-71N_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.90-71N_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.90-71N_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.92-71N_1" nphases=1 basefreq=60 r1=0.984 x1=0.49 units=km normamps=114

New "Linecode.92-71N_2" nphases=2 basefreq=60 r1=0.984 x1=0.49 units=km normamps=114

New "Linecode.92-71N_3" nphases=3 basefreq=60 r1=0.984 x1=0.49 units=km normamps=114

New "Linecode.92-71N_4" nphases=4 basefreq=60 r1=0.984 x1=0.49 units=km normamps=114

New "Linecode.93-71B_1" nphases=1 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.93-71B_2" nphases=2 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114

New "Linecode.93-71B_3" nphases=3 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.93-71B_4" nphases=4 basefreq=60 r1=1.551 x1=0.49 units=km normamps=114
New "Linecode.93-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.49 units=km
normamps=114
New "Linecode.93-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.49 units=km
normamps=114
New "Linecode.93-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.49 units=km
normamps=114
New "Linecode.93-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.49 units=km
normamps=114
New "Linecode.94-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.94-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.94-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.94-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.94-71N_1" nphases=1 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203
New "Linecode.94-71N_2" nphases=2 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203
New "Linecode.94-71N_3" nphases=3 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203
New "Linecode.94-71N_4" nphases=4 basefreq=60 r1=0.975 x1=0.45 units=km
normamps=203
New "Linecode.95-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.95-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.95-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.95-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.96-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.96-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.96-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.96-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.9-71B_1" nphases=1 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.9-71B_2" nphases=2 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.9-71B_3" nphases=3 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.9-71B_4" nphases=4 basefreq=60 r1=0.62 x1=0.47 units=km normamps=230
New "Linecode.97-71B_1" nphases=1 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203

New "Linecode.97-71B_2" nphases=2 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.97-71B_3" nphases=3 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.97-71B_4" nphases=4 basefreq=60 r1=0.613 x1=0.45 units=km normamps=203
New "Linecode.98-71B_1" nphases=1 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235
New "Linecode.98-71B_2" nphases=2 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235
New "Linecode.98-71B_3" nphases=3 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235
New "Linecode.98-71B_4" nphases=4 basefreq=60 r1=0.486 x1=0.44 units=km normamps=235
New "Linecode.99-31M_1" nphases=1 basefreq=60 r1=2.469 x1=0.49 units=km
normamps=105
New "Linecode.99-31M_2" nphases=2 basefreq=60 r1=2.469 x1=0.49 units=km
normamps=105
New "Linecode.99-31M_3" nphases=3 basefreq=60 r1=2.469 x1=0.49 units=km
normamps=105
New "Linecode.99-31M_4" nphases=4 basefreq=60 r1=2.469 x1=0.49 units=km
normamps=105
New "Linecode.CI-06_1" nphases=1 basefreq=60 r1=3.504 x1=0.13 units=km normamps=51
New "Linecode.CI-06_2" nphases=2 basefreq=60 r1=3.504 x1=0.13 units=km normamps=51
New "Linecode.CI-06_3" nphases=3 basefreq=60 r1=3.504 x1=0.13 units=km normamps=51
New "Linecode.CI-06_4" nphases=4 basefreq=60 r1=3.504 x1=0.13 units=km normamps=51

! Criação da seção de curvas BT

New "Loadshape.COM-Tipo1_DO" 24 1.0 mult=(0.908831688 0.903845629 0.916741556
0.901301506 0.873491015 0.929404424 0.883635599 0.943826512 0.936963915 0.966885179
0.989056402 0.997313368 0.981238838 0.932439172 0.960868386 0.984673611 0.932682162
0.949834437 0.98301695 1 0.986778209 0.964817146 0.934374306 0.921239394)

New "Loadshape.COM-Tipo1_DU" 24 1.0 mult=(0.792019327 0.776807317 0.766992339
0.766680606 0.774683695 0.796864845 0.825028212 0.88200035 0.918143419 0.944063697
0.949945618 0.967037486 0.975537156 0.954257142 0.995527198 0.979193359 1
0.974369784 0.99572885 0.966689336 0.964848566 0.899119201 0.873133116 0.850273859)

New "Loadshape.COM-Tipo1_SA" 24 1.0 mult=(0.875580739 0.873397908 0.840080171
0.849207689 0.866308464 0.892419785 0.896751069 0.915484544 0.925024803 0.955850674
1 0.962661687 0.993499574 0.965455225 0.964047961 0.971315602 0.92749077 0.926879104
0.97028235 0.97267349 0.934437759 0.901366759 0.855111828 0.850614839)

New "Loadshape.COM-Tipo2_DO" 24 1.0 mult=(0.874516265 0.824250292 0.916770103
0.867306377 0.816110674 0.843023184 0.8134487 0.672679756 0.787510519 0.771167856
0.783070123 0.898738238 0.885942903 0.851704683 0.867354681 0.915503072 0.902720719
0.846487534 0.948955244 0.931671604 1 0.850063354 0.859298082 0.868904711)

New "Loadshape.COM-Tipo2_DU" 24 1.0 mult=(0.218884252 0.237559446 0.248240434
0.208436816 0.221831652 0.225498519 0.228985419 0.331029751 0.480335433 0.692265893
0.765215265 0.901478578 0.880633564 0.929686143 0.844958945 1 0.864518701
0.619318786 0.407917973 0.295930132 0.294195237 0.236836655 0.230414068 0.224504852)

New "Loadshape.COM-Tipo2_SA" 24 1.0 mult=(0.66621343 0.724914828 0.729739542
0.654400438 0.659723564 0.63981891 0.664499695 0.7289532 0.859743599 0.91792461 1
0.94910771 0.981113975 0.924445179 0.845355031 0.792241743 0.764555027 0.74544459
0.835605032 0.819213154 0.805408686 0.836417285 0.787196318 0.769465454)

New "Loadshape.COM-Tipo3_DO" 24 1.0 mult=(0.726400699 0.652791455 0.630385982
0.606663407 0.572075962 0.621684058 0.582077506 0.611726675 0.612998461 0.580404359
0.611660191 0.637101154 0.667681643 0.710692154 0.701200201 0.718844899 0.749692344
0.740973551 0.921064152 1 0.903914405 0.831807238 0.807767639 0.751986208)

New "Loadshape.COM-Tipo3_DU" 24 1.0 mult=(0.632043645 0.539499334 0.515269556
0.483008179 0.459962641 0.499514787 0.526997096 0.512483723 0.592102513 0.555637824
0.596592129 0.628565489 0.62879449 0.608644058 0.785375276 0.837139049 0.818142486
0.901255744 0.920413709 1 0.905322823 0.865039485 0.791676756 0.649086234)

New "Loadshape.COM-Tipo3_SA" 24 1.0 mult=(0.752563576 0.679333473 0.652320949
0.598519967 0.572608887 0.642558106 0.611166025 0.652706242 0.730775692 0.785134392
0.732086399 0.748673743 0.754406039 0.83051309 0.792946388 0.801878178 0.76991474
0.810182922 0.964216413 0.958004251 1 0.913610754 0.923203473 0.865163205)

New "Loadshape.COM-Tipo4_DO" 24 1.0 mult=(0.40534682 0.355412869 0.38299721
0.314697494 0.273020275 0.350885786 0.326297685 0.328995467 0.430268176 0.61707862
0.563075398 0.550098646 0.531291031 0.432229328 0.443532645 0.494750952 0.552186206
0.589970908 0.821286421 1 0.965768993 0.688796379 0.537878127 0.47084978)

New "Loadshape.COM-Tipo4_DU" 24 1.0 mult=(0.517481531 0.387192508 0.342784768
0.33402509 0.33001532 0.313580918 0.405007115 0.430827278 0.340831215 0.322549259
0.37245179 0.306271864 0.358283865 0.348427683 0.416759004 0.435804216 0.448715747
0.444714173 0.645577147 1 0.86966047 0.807089149 0.508193463 0.484729985)

New "Loadshape.COM-Tipo4_SA" 24 1.0 mult=(0.706347275 0.549405975 0.554663943
0.51338444 0.483410046 0.553635677 0.495917371 0.476981078 0.513443109 0.511101262
0.585514272 0.614640133 0.536819296 0.526154344 0.586697052 0.606269676 0.710687161
0.740302852 0.750379397 1 0.944149358 0.880733673 0.759288973 0.677578119)

New "Loadshape.COM-Tipo5_DO" 24 1.0 mult=(0.939226397 0.922102836 0.891778221
0.878564125 0.878793937 0.860967761 0.831709066 0.847638219 0.883411087 0.972520611
0.955658339 0.970761756 0.982500003 0.997751018 1 0.992972919 0.946490559
0.915210493 0.931186153 0.948060633 0.972129713 0.900406253 0.890085903 0.911198068)

New "Loadshape.COM-Tipo5_DU" 24 1.0 mult=(0.198882096 0.202401483 0.188289726
0.186718565 0.199259642 0.192747603 0.238872913 0.414536296 0.717816504 0.842417425
0.887161371 0.920043493 0.852621948 0.91694299 0.98341028 1 0.95897901 0.837629645
0.52644412 0.368264131 0.274649619 0.247673906 0.241280097 0.225365642)

New "Loadshape.COM-Tipo5_SA" 24 1.0 mult=(0.500862949 0.499669723 0.480508174
0.496255044 0.491151454 0.470456941 0.50830789 0.63016234 0.849852138 0.945795229
0.984589804 1 0.780583894 0.705540802 0.682667824 0.695573146 0.625354081
0.630174962 0.564134824 0.574453011 0.537443729 0.563444675 0.530840521 0.519737906)

New "Loadshape.IND-Tipo1_DO" 24 1.0 mult=(0.760112095 0.729421262 0.702658959
0.680409188 0.648369013 0.630774965 0.612715311 0.528165163 0.590109008 0.451807885
0.619159639 0.546144488 0.614262849 0.559469922 0.557222675 0.588390227 0.63369672
0.710035799 0.799305794 1 0.748355411 0.976964938 0.952372974 0.811152986)

New "Loadshape.IND-Tipo1_DU" 24 1.0 mult=(0.652093073 0.648922316 0.508569788
0.456741629 0.427981839 0.480487036 0.508705562 0.344039034 0.448236927 0.331249499
0.338811044 0.418650694 0.483434777 0.519177177 0.474701351 0.463917887 0.538701055
0.612310959 0.736527225 0.910577512 0.845139049 0.723495337 1 0.750689552)

New "Loadshape.IND-Tipo1_SA" 24 1.0 mult=(0.611704591 0.556580852 0.527476739
0.511795022 0.49590579 0.560756008 0.489947977 0.422866209 0.588968085 0.525363817
0.50532767 0.584474982 0.686163646 0.593930468 0.546875318 0.693956134 0.677283795
0.726539079 1 0.985250707 0.857284086 0.864263123 0.780558716 0.801397327)

New "Loadshape.IND-Tipo2_DO" 24 1.0 mult=(0.912370637 0.916815124 0.889987623
0.912350537 0.902045313 0.916221876 0.881748804 0.894473832 0.881588615 0.957929126
0.969217499 0.938099132 0.970503145 0.938476547 0.972321914 0.98065575 0.977450358
0.995583531 0.999905722 1 0.979896397 0.967959871 0.972478579 0.938452488)

New "Loadshape.IND-Tipo2_DU" 24 1.0 mult=(0.097013501 0.093723993 0.090406143
0.092699884 0.102741288 0.114404232 0.158166373 0.345209366 0.804437977 0.909741747
0.956883584 0.895988381 0.724947605 0.890170075 1 0.945692831 0.878766672
0.659960936 0.267706386 0.143142524 0.104992818 0.10895665 0.106104463 0.100073529)

New "Loadshape.IND-Tipo2_SA" 24 1.0 mult=(0.509355856 0.512339613 0.490670063
0.494122534 0.472830114 0.486535255 0.510091832 0.665957174 0.877324363 0.99760035 1
0.956593674 0.804754739 0.788718402 0.779022919 0.745794803 0.629947606 0.584437627
0.587968668 0.55034362 0.534611075 0.53090031 0.510769191 0.491643446)

New "Loadshape.IND-Tipo3_DO" 24 1.0 mult=(0.912287784 0.902736789 0.884757434
0.860915816 0.90599052 0.912979336 0.935602174 0.936451423 0.97302049 0.978193643
0.934641681 0.97045342 1 0.990965846 0.960341272 0.979642514 0.955020907 0.89638021
0.957193865 0.917304503 0.856254463 0.8817041 0.94441951 0.898947827)

New "Loadshape.IND-Tipo3_DU" 24 1.0 mult=(0.796653592 0.790545585 0.761576361
0.742856861 0.854913092 0.878601646 0.879216838 0.865451642 0.918473582 0.927925564
0.964614556 0.995334856 0.929407257 0.966302541 1 0.917363689 0.882894825
0.764580107 0.75546376 0.796847988 0.823161487 0.84615571 0.831886942 0.809178459)

New "Loadshape.IND-Tipo3_SA" 24 1.0 mult=(0.807977099 0.775932788 0.76232175
0.809606547 0.846473124 0.889442122 0.861731345 0.884404243 0.962246865 0.995381734
0.963724946 1 0.941286104 0.949138871 0.954129444 0.905668422 0.94571454 0.868623282
0.906886479 0.886569331 0.915249668 0.905583016 0.831251993 0.78640243)

New "Loadshape.IND-Tipo4_DO" 24 1.0 mult=(0.723664847 0.741869815 0.711312937
0.725910636 0.63986203 0.68983462 0.652252922 0.706749838 0.799311498 0.797965848
0.926653949 0.809440265 0.811276676 0.734165234 0.787911345 0.801735385 0.851794935
0.890924908 1 0.969397948 0.974642704 0.875039903 0.827529108 0.747876624)

New "Loadshape.IND-Tipo4_DU" 24 1.0 mult=(0.405944033 0.365481937 0.385495428
0.369978533 0.402359844 0.41365711 0.463169841 0.592654389 0.715312028 0.79262208
0.86228269 0.853025614 0.758859944 0.842996228 0.930820016 0.951002796 0.9705767
0.937082354 0.998355253 1 0.890322636 0.754734871 0.61986595 0.51294732)

New "Loadshape.IND-Tipo4_SA" 24 1.0 mult=(0.571261978 0.532036541 0.504708213
0.535441564 0.551222515 0.59720068 0.694801682 0.727121731 0.836068184 0.982375328
0.958848024 0.989478323 0.926682456 0.852278742 0.865668295 0.805564213 0.747225922
0.828057799 0.912640733 1 0.905323991 0.759299827 0.64406544 0.720925785)

New "Loadshape.IND-Tipo5_DO" 24 1.0 mult=(0.919041167 0.883242716 0.919388208
0.886760421 0.913274196 0.82748861 0.778241489 0.900153748 0.778564759 0.825101543
0.967395737 0.967037182 0.952909411 0.872388991 0.816927944 0.856778465 0.915151783
0.850919256 0.957719202 0.912565257 1 0.976642774 0.902391375 0.927836542)

New "Loadshape.IND-Tipo5_DU" 24 1.0 mult=(0.136773072 0.11762607 0.120642542
0.118095308 0.115642978 0.117569118 0.133107986 0.231967116 0.636695722 0.867311485
0.79844611 0.60957152 0.443566761 0.676752281 0.785898777 1 0.974095305 0.757844177
0.34064873 0.23703315 0.149739103 0.129109143 0.117231128 0.123726576)

New "Loadshape.IND-Tipo5_SA" 24 1.0 mult=(0.652809394 0.604216851 0.529460777
0.607301426 0.525821225 0.501132309 0.516931604 0.626856927 0.880042319 0.918883682
1 0.808070118 0.56192531 0.642003896 0.638488596 0.601012183 0.573403271 0.623778287
0.594331322 0.62003018 0.584016012 0.467467073 0.577726991 0.54131416)

New "Loadshape.IP-Tipo1_DO" 24 1.0 mult=(1 1 1 1 0.792 0.083 0 0 0 0 0 0 0 0 0 0 0.125
0.917 1 1 1 1 1)

New "Loadshape.IP-Tipo1_DU" 24 1.0 mult=(1 1 1 1 0.792 0.083 0 0 0 0 0 0 0 0 0 0 0.125
0.917 1 1 1 1 1)

New "Loadshape.IP-Tipo1_SA" 24 1.0 mult=(1 1 1 1 0.792 0.083 0 0 0 0 0 0 0 0 0 0 0.125
0.917 1 1 1 1 1)

New "Loadshape.RES-Tipo1_DO" 24 1.0 mult=(0.830054054 0.831916686 0.838337529
0.760206281 0.755003656 0.759979919 0.736674369 0.795959314 0.86881511 0.811887996
0.908860044 0.905297058 0.940028686 1 0.975204204 0.986210649 0.909754271
0.789232591 0.935257114 0.990866761 0.943144971 0.96899628 0.912471639 0.883079225)

New "Loadshape.RES-Tipo1_DU" 24 1.0 mult=(0.13500199 0.126511754 0.126211431
0.138313981 0.146991851 0.164850512 0.223419289 0.348457718 0.574895714 0.717508709
0.777660835 0.672393775 0.764610844 0.925692795 1 0.958561463 0.903603019
0.626621452 0.302867875 0.268504763 0.167301596 0.162673524 0.144323144 0.139709914)

New "Loadshape.RES-Tipo1_SA" 24 1.0 mult=(0.50732124 0.51945345 0.464474992
0.483961138 0.499667402 0.455898461 0.447336277 0.636971915 0.87743299 0.999098602 1
0.931399881 0.905800108 0.768234835 0.752521201 0.713336604 0.682987434 0.69832714
0.677260852 0.592423917 0.556524278 0.600104691 0.570801441 0.545937952)

New "Loadshape.RES-Tipo2_DO" 24 1.0 mult=(0.760524247 0.707026755 0.676477835
0.652959493 0.582211953 0.580825182 0.658813404 0.589750249 0.618122692 0.751287554
0.720309623 0.797087595 0.846809745 0.781023847 0.794143153 0.817551045 0.807263828
0.820012858 0.931547075 0.963091886 0.999101765 1 0.916269663 0.85240724)

New "Loadshape.RES-Tipo2_DU" 24 1.0 mult=(0.793538273 0.673555599 0.611217652
0.579400206 0.530855056 0.550065784 0.636459488 0.540935572 0.533905696 0.508542079
0.568929705 0.604514525 0.680260961 0.613632972 0.576891852 0.549514406 0.538293323
0.580038528 0.640794078 0.875936345 1 0.948344577 0.93516376 0.842291427)

New "Loadshape.RES-Tipo2_SA" 24 1.0 mult=(0.782139087 0.668730962 0.620320568
0.589917975 0.593634184 0.618727818 0.556086899 0.581158407 0.564138184 0.64356484

0.706395189 0.774390587 0.798144857 0.800831164 0.822904746 0.886973443 0.949604996
0.883417387 0.92948297 0.939841782 0.894474853 0.923711502 1 0.871850444)

New "Loadshape.RES-Tipo3_DO" 24 1.0 mult=(0.586261313 0.467761675 0.397763963
0.380811436 0.362444195 0.370313276 0.396343507 0.430469925 0.466549642 0.525852206
0.6169829 0.61699912 0.663699433 0.599646933 0.680949614 0.646220121 0.729664112
0.902367239 1 0.936096163 0.870552879 0.826760045 0.740812235 0.62012844)

New "Loadshape.RES-Tipo3_DU" 24 1.0 pmult=(0.339712748 0.288706154 0.260079934
0.262849898 0.269070233 0.349274106 0.482100074 0.388035815 0.320042487 0.355436384
0.369888834 0.461894995 0.570486719 0.423907845 0.372792205 0.363237571 0.39152519
0.44497328 0.750816822 0.948467123 1 0.951673204 0.687307513 0.527135526)
qmult=(0.339712748 0.288706154 0.260079934 0.262849898 0.269070233 0.349274106
0.482100074 0.388035815 0.320042487 0.355436384 0.369888834 0.461894995 0.570486719
0.423907845 0.372792205 0.363237571 0.39152519 0.44497328 0.750816822 0.948467123 1
0.951673204 0.687307513 0.527135526)

New "Loadshape.RES-Tipo3_SA" 24 1.0 mult=(0.557902769 0.420287414 0.360868204
0.321615742 0.319048041 0.359724362 0.373368554 0.453078011 0.518335966 0.454120315
0.544613772 0.59748458 0.761015448 0.670826159 0.666679464 0.66555588 0.713805079
0.701587372 0.867628258 1 0.933022946 0.871474839 0.836387654 0.672212423)

New "Loadshape.RES-Tipo4_DO" 24 1.0 mult=(0.819737496 0.754668227 0.724204705
0.708017779 0.685917106 0.668084418 0.698310579 0.724673163 0.770635305 0.861487696
0.86038997 0.847234919 0.868211714 0.854204321 0.890290658 0.867566529 0.947855896
0.999299758 0.965812973 0.995986813 1 0.976448204 0.888138592 0.858545196)

New "Loadshape.RES-Tipo4_DU" 24 1.0 mult=(0.735127258 0.692937834 0.657907527
0.641839744 0.656434903 0.655600674 0.708583875 0.715553582 0.762789802 0.827017653
0.798552865 0.861683203 0.915764869 0.872031264 0.872283536 0.914817553 0.902968321
0.968777708 0.996743553 1 0.963935277 0.854534229 0.8203672 0.791623758)

New "Loadshape.RES-Tipo4_SA" 24 1.0 mult=(0.711381771 0.657082084 0.641643136
0.617324871 0.632303637 0.630121552 0.672231608 0.662631482 0.692446303 0.779193789
0.734119329 0.808955078 0.888041466 0.864782093 0.888943625 0.884571742 0.877305349
0.886041965 1 0.995087642 0.981315133 0.917358107 0.906471468 0.814629096)

New "Loadshape.RES-Tipo5_DO" 24 1.0 mult=(0.564424296 0.48492743 0.452057607
0.447066746 0.433401058 0.435869681 0.471269529 0.52229761 0.590914529 0.596766071
0.695090715 0.794873678 0.75726351 0.687904012 0.646929685 0.712645097 0.806295145
0.87290718 0.93388582 1 0.868668294 0.860800077 0.770768911 0.687569572)

New "Loadshape.RES-Tipo5_DU" 24 1.0 mult=(0.342607212 0.316217037 0.276834928
0.281022205 0.274548418 0.309642785 0.369614669 0.390001152 0.400568654 0.490478548
0.474837581 0.549767552 0.53846227 0.531802422 0.59467129 0.55973633 0.642632228
0.770696944 1 0.792384113 0.664112253 0.600763973 0.496828851 0.470755453)

New "Loadshape.RES-Tipo5_SA" 24 1.0 mult=(0.519070595 0.483123879 0.461619059
0.414744945 0.385346147 0.422908018 0.472724712 0.511942603 0.58417379 0.591199225
0.695806814 0.809302257 0.810768367 0.778874743 0.848697771 0.82437195 0.832499631
0.926317281 0.872026947 1 0.889654298 0.883931918 0.692699417 0.696947592)

New "Loadshape.RUR-Tipo1_DO" 24 1.0 mult=(0.545709612 0.416354751 0.458495661
0.348398476 0.37610891 0.413447827 0.478878183 0.50331924 0.691304656 0.687655856

0.777912448 0.721499931 0.703835863 0.715068245 0.741336836 0.801767375 0.742840199
0.736748172 0.905699378 1 0.971674346 0.824774225 0.629253738 0.518740414)

New "Loadshape.RUR-Tipo1_DU" 24 1.0 mult=(0.488907979 0.350043749 0.316411675
0.289694559 0.295094181 0.354472772 0.438409844 0.427372163 0.432298291 0.446081187
0.522223851 0.586134564 0.445286874 0.446641074 0.462804546 0.489673979 0.477356007
0.625318866 0.709085678 0.983121363 1 0.709948184 0.568309274 0.444172832)

New "Loadshape.RUR-Tipo1_SA" 24 1.0 mult=(0.499956218 0.404030139 0.387603592
0.329889128 0.38471267 0.384296253 0.42089147 0.6459736 0.681941453 0.683270558
0.864859123 0.609919972 0.615017639 0.691837323 0.686261683 0.677698774 0.685808399
0.842692602 1 0.983462368 0.927732636 0.885093681 0.739471103 0.604532815)

New "Loadshape.RUR-Tipo2_DO" 24 1.0 mult=(0.428343601 0.394392204 0.415619217
0.406342048 0.333635656 0.436140053 0.491360287 0.606848173 0.814583504 0.939567549
0.948972007 1 0.867897783 0.753641874 0.737356274 0.713658745 0.842623573
0.597740453 0.649251935 0.545422962 0.583227921 0.527777327 0.427137094 0.375893305)

New "Loadshape.RUR-Tipo2_DU" 24 1.0 mult=(0.266512167 0.276031003 0.290518833
0.266851307 0.273943315 0.282474266 0.359726129 0.515692975 0.708195644 0.914728605
0.987106751 0.986527308 0.979688183 0.871805916 1 0.881242854 0.784762695
0.676498741 0.505028384 0.361380702 0.387999906 0.411345908 0.349423257 0.279283774)

New "Loadshape.RUR-Tipo2_SA" 24 1.0 mult=(0.384775109 0.354197738 0.396334796
0.403664602 0.439090589 0.45376913 0.560887585 0.635704372 0.657846131 0.8374342
0.941692889 1 0.973533396 0.909869213 0.927206835 0.866240807 0.864545286
0.770006832 0.84100805 0.758353188 0.729510726 0.582731202 0.507244863 0.422987362)

New "Loadshape.RUR-Tipo3_DO" 24 1.0 mult=(0.691665287 0.586879212 0.584793315
0.582154446 0.559181487 0.555673354 0.600337604 0.64709221 0.700810011 0.722792269
0.70813849 0.80352517 0.855643059 0.850480158 0.839051563 0.94606417 0.840354967
0.935616624 0.976931476 1 0.920201398 0.785534995 0.756972043 0.727379563)

New "Loadshape.RUR-Tipo3_DU" 24 1.0 mult=(0.492722906 0.469731433 0.445735093
0.45205613 0.43950062 0.439742116 0.505267207 0.4434598 0.483742564 0.545524226
0.515835019 0.587293036 0.627661686 0.600435516 0.605640514 0.702689471 0.66522466
0.767406199 0.994181762 1 0.877777463 0.817171727 0.789511957 0.686563353)

New "Loadshape.RUR-Tipo3_SA" 24 1.0 mult=(0.64325241 0.579283278 0.538441065
0.550789851 0.496269437 0.495360521 0.551793998 0.620131036 0.653229367 0.760905683
0.723011619 0.774521981 1 0.991710281 0.936900107 0.874585387 0.873498129
0.899892921 0.996989918 0.949293023 0.99500089 0.939447294 0.881911908 0.767524222)

New "Loadshape.RUR-Tipo4_DO" 24 1.0 mult=(0.253600827 0.274289837 0.272758039
0.261763608 0.313497599 0.574144329 0.977008343 1 0.86131981 0.656612503 0.704811398
0.594720597 0.494496465 0.525942492 0.456354322 0.477346979 0.819592145 0.891769603
0.848416996 0.687937466 0.622513104 0.456587668 0.364268203 0.275604916)

New "Loadshape.RUR-Tipo4_DU" 24 1.0 mult=(0.230234808 0.210264185 0.232021549
0.19465865 0.271250039 0.45295282 0.853597086 1 0.763484469 0.51961849 0.46238919
0.352144856 0.297198145 0.322001025 0.328658792 0.335164833 0.504772434 0.670848062
0.740162981 0.577970176 0.436642229 0.314543468 0.271534627 0.239841506)

New "Loadshape.RUR-Tipo4_SA" 24 1.0 mult=(0.32864651 0.284755287 0.295288706
0.29507712 0.407496265 0.597286794 0.969546181 1 0.652377553 0.684330598 0.647208686

0.506768846 0.544728343 0.598239103 0.498791601 0.52752288 0.848566006 0.931782477
0.946950796 0.705464289 0.632465221 0.561954584 0.500101046 0.361948566)

New "Loadshape.RUR-Tipo5_DO" 24 1.0 mult=(0.697930719 0.622011112 0.616139477
0.605543618 0.598607117 0.665195255 0.70265488 0.709514854 0.834142807 0.842607626
0.92273159 0.856570939 0.950508358 0.940212398 0.963061552 0.95091989 0.941330621 1
0.963292832 0.973325245 0.832942318 0.819035632 0.771595124 0.699331111)

New "Loadshape.RUR-Tipo5_DU" 24 1.0 mult=(0.570289237 0.529492614 0.504505869
0.523514394 0.531195619 0.612658733 0.674623356 0.632838544 0.787320984 0.751335905
0.862596092 0.899290651 0.960527213 0.972713095 0.996531956 1 0.975065518
0.918612134 0.900329955 0.937180995 0.8686046 0.840110184 0.727064407 0.6342258)

New "Loadshape.RUR-Tipo5_SA" 24 1.0 mult=(0.621152257 0.575972523 0.554224311
0.541331865 0.541602389 0.624112337 0.653290095 0.643808088 0.688962461 0.804283627
0.82522681 0.849046503 0.874769484 0.90458687 0.949978757 0.914764085 1 0.981050064
0.95128242 0.981704992 0.860949158 0.79444955 0.715318293 0.670719687)

New "Loadshape.RUR-Tipo6_DO" 24 1.0 mult=(0.907975634 0.854989169 0.863564676
0.838245214 0.810893901 0.822908372 0.746688666 0.801326809 0.788112293 0.750036905
0.844225013 0.90555286 0.850325081 0.889718523 0.806141311 0.791418528 0.755869367
0.852736075 0.870781075 1 0.994465073 0.916097576 0.962417101 0.904580111)

New "Loadshape.RUR-Tipo6_DU" 24 1.0 mult=(1 0.954780078 0.948490725 0.909837842
0.910009661 0.864677534 0.731178849 0.746740132 0.684279846 0.690400673 0.653982969
0.621057299 0.701673647 0.623101993 0.683599472 0.726318762 0.7617241 0.755727211
0.855420158 0.986587963 0.98254545 0.887304721 0.915977583 0.861181834)

New "Loadshape.RUR-Tipo6_SA" 24 1.0 mult=(0.797019311 0.821649946 0.773201417
0.755662902 0.757896804 0.696775381 0.658731988 0.641763413 0.670430619 0.661351863
0.762470746 0.774248244 0.729343459 0.71629351 0.796277621 0.778626944 0.714736512
0.782018515 0.934112575 1 0.88953565 0.887204589 0.836699337 0.830304839)

New "Loadshape.SP-Tipo1_DO" 24 1.0 mult=(0.994323549 1 0.982452468 0.979405382
0.933443583 0.946425319 0.962154736 0.928721497 0.946113047 0.95852924 0.97109045
0.961192475 0.943099348 0.94980954 0.95142101 0.94370866 0.944182158 0.954461366
0.951242782 0.957841552 0.963112796 0.977002457 0.986820901 0.974316105)

New "Loadshape.SP-Tipo1_DU" 24 1.0 mult=(0.981337621 0.984664306 0.966688054
0.932911313 0.92928587 0.943861266 0.954935809 1 0.990457525 0.972693041 0.96834215
0.958801789 0.975126849 0.988824728 0.985564699 0.980128315 0.980567089 0.980636813
0.971611733 0.98348239 0.985253988 0.972317482 0.973095441 0.956670836)

New "Loadshape.SP-Tipo1_SA" 24 1.0 mult=(0.959947059 0.955453567 0.938249255
0.897796639 0.915397438 0.909016001 0.91934954 0.928083686 0.944596571 0.949153064
0.969306905 0.973780298 0.985822175 0.985965352 0.965432541 0.977479769 0.987593723
0.986310082 0.981666247 0.988439502 0.995135789 0.994840313 0.997392772 1)

New "Loadshape.SP-Tipo2_DO" 24 1.0 mult=(0.540352405 0.512437447 0.481841806
0.367157936 0.46959157 0.468875911 0.435245154 0.466618542 0.644784716 0.840287651
0.997660062 0.971941171 0.864423769 1 0.931870783 0.838408497 0.873781209
0.746967636 0.8765437 0.846218886 0.653481051 0.796412672 0.695722101 0.57417046)

New "Loadshape.SP-Tipo2_DU" 24 1.0 mult=(0.536690492 0.420774217 0.256640119
0.144786783 0.261731862 0.330185806 0.335680128 0.538264002 0.693208572 0.847694615

0.683798836 1 0.935989185 0.993461843 0.902889855 0.684829474 0.864935877
0.868699236 0.631623184 0.852864841 0.95560041 0.796901587 0.60162106 0.528564215)

New "Loadshape.SP-Tipo2_SA" 24 1.0 mult=(0.628143658 0.452813222 0.367334308
0.290644548 0.401314757 0.387551354 0.463685006 0.601638955 0.586699233 0.66848743
0.768461627 0.945677237 0.986245868 1 0.860179832 0.936456188 0.798888654
0.891972599 0.970404418 0.889160148 0.759674895 0.654256925 0.627787762 0.526733258)

New "Loadshape.SP-Tipo3_DO" 24 1.0 mult=(0.590142841 0.348897803 0.310623242
0.096806532 0.385933477 0.402974071 0.564301215 0.613866821 0.755013349 0.849427427
0.975662305 1 0.944625714 0.931865715 0.907351967 0.843310555 0.88957433 0.966483184
0.983548937 0.994726747 0.907635908 0.809796946 0.745352837 0.651852212)

New "Loadshape.SP-Tipo3_DU" 24 1.0 mult=(0.424066951 0.256385921 0.168299019
0.061154038 0.347668924 0.349022749 0.527536702 0.715485944 0.851557615 0.865636691
0.907363011 0.995813504 0.949322646 0.928271681 0.818379246 0.836170855 0.869829295
0.893180316 0.951108638 1 0.940280705 0.83455895 0.794829166 0.623973103)

New "Loadshape.SP-Tipo3_SA" 24 1.0 mult=(0.520829626 0.354103717 0.159642403
0.050086259 0.401494858 0.376680658 0.51816767 0.659624237 0.802788677 0.902117205
0.991211346 1 0.957338809 0.949195467 0.932806666 0.928744027 0.941770559
0.959087831 0.8998583 0.822460615 0.794439135 0.703767128 0.593504332 0.595759075)

New "Loadshape.SP-Tipo4_DO" 24 1.0 mult=(0.752355373 0.521937172 0.577261891
0.459196102 0.416933934 0.560455382 0.61754234 0.606959744 0.483316165 0.507645749
0.69118558 0.686957941 0.592826621 0.607200055 0.637210542 0.595076614 0.492582595
0.658131742 0.892368529 1 0.958984747 0.872989183 0.856390618 0.950217261)

New "Loadshape.SP-Tipo4_DU" 24 1.0 mult=(0.916177771 0.786026408 0.942917325
0.893853416 1 0.887961478 0.527556864 0.439433301 0.395319564 0.559904302
0.565572557 0.660845931 0.500265732 0.408973148 0.370382302 0.30901386 0.286268341
0.308145827 0.650435873 0.904746354 0.995217694 0.881508758 0.69345459 0.800489029)

New "Loadshape.SP-Tipo4_SA" 24 1.0 mult=(1 0.944670622 0.871522379 0.677856525
0.604264624 0.625238168 0.521741864 0.672211762 0.700479111 0.622936791 0.659712815
0.79403595 0.742253853 0.704543241 0.63459774 0.743429995 0.783665589 0.754059099
0.843794022 0.978443725 0.835413344 0.769394836 0.793394106 0.885251908)

!NOVO LOADSHAPE REPRESENTATIVO DO ALIMENTADOR

New "Loadshape.CURVA" 24 1.0 mult=(0.63431595 0.5781472 0.53907255 0.53100273
0.525749 0.5497442 0.58774194 0.57231744 0.60902958 0.66933898 0.68768531 0.7447487
0.79201143 0.74954746 0.76405228 0.75331663 0.77208036 0.81570054 0.97013191 1.0
0.97971692 0.92489638 0.8190189 0.74192983) qmult=(0.57151726 0.51464415 0.47607553
0.46821595 0.46296368 0.48604702 0.5237456 0.50838673 0.54647068 0.61033922
0.63035948 0.69150093 0.74493019 0.6987781 0.71553876 0.703765 0.72365629 0.77090208
0.9596657 1.0 0.97331006 0.90212777 0.77270589 0.68527089)

! Criação da seção de curvas MT

New "Loadshape.MT-Tipo1_DO" 24 1.0 mult=(0.650099582 0.627029863 0.606051433
0.623577645 0.593053667 0.594467076 0.59605489 0.420801023 0.483122399 0.450333032
0.449351289 0.442529473 0.599437535 0.716985673 0.79225077 0.717806216 0.792592602
0.680060671 0.824941604 1 0.861456721 0.913179364 0.866522808 0.656799848)

New "Loadshape.MT-Tipo1_DU" 24 1.0 mult=(0.376117368 0.339566109 0.329313901
0.31281004 0.328690188 0.321440312 0.299313265 0.324110429 0.347908511 0.426836397
0.459452251 0.454217377 0.499874214 0.552276007 0.674420871 0.660868939 0.629693235
0.681849812 0.862342524 0.950144921 1 0.921185704 0.757337917 0.569582569)

New "Loadshape.MT-Tipo1_SA" 24 1.0 mult=(0.460632818 0.439175717 0.433865478
0.43113838 0.444595 0.433965006 0.438534906 0.354652273 0.412717386 0.530854216
0.559757059 0.564908766 0.613500726 0.767678456 0.84138537 0.832982864 0.794217122
0.817766734 0.872037541 1 0.942485026 0.924342746 0.757938145 0.594582723)

New "Loadshape.MT-Tipo2_DO" 24 1.0 mult=(0.836593463 0.791921181 0.789634782
0.775117477 0.757570656 0.743926297 0.780593545 0.776427103 0.801515808 0.863297265
0.89445163 0.929196146 0.929588848 0.873780357 0.902294416 0.898023775 0.908091556
0.912848682 0.949210892 1 0.979100405 0.943673472 0.864936023 0.829478204)

New "Loadshape.MT-Tipo2_DU" 24 1.0 mult=(0.451167075 0.409903442 0.39352769
0.398629632 0.390878996 0.418012563 0.520303316 0.681329572 0.841294551 0.877918089
0.924041521 0.916185638 0.901048277 0.954954192 1 0.999082913 0.982505589
0.887576212 0.823379416 0.779892867 0.743298015 0.691346903 0.595582193 0.531057723)

New "Loadshape.MT-Tipo2_SA" 24 1.0 mult=(0.721298691 0.664210712 0.641651573
0.638259492 0.642655315 0.645333386 0.729425641 0.759512755 0.887646497 0.984609774
0.977431117 1 0.979452373 0.943702949 0.956772684 0.925870677 0.90556749 0.853401669
0.83799386 0.865566604 0.844095519 0.793235712 0.745013463 0.691382803)

New "Loadshape.MT-Tipo3_DO" 24 1.0 mult=(0.650628013 0.641807664 0.698559214
0.754674557 0.750419099 0.739847524 0.821405949 0.794082146 0.835386064 0.867720999
0.795037163 0.829420708 0.88184853 0.936507285 0.958120612 1 0.964226296 0.844470041
0.825970167 0.801588132 0.807063107 0.861927636 0.855864154 0.761331969)

New "Loadshape.MT-Tipo3_DU" 24 1.0 mult=(0.725338973 0.695034864 0.710486328
0.71316084 0.678455232 0.682661101 0.767538489 0.720487896 0.747832087 0.853738559
0.859798262 0.860568743 0.906978362 0.939265734 0.986928614 1 0.981544813
0.780622763 0.131079836 0.075969415 0.100714568 0.541673209 0.691263349 0.658588188)

New "Loadshape.MT-Tipo3_SA" 24 1.0 mult=(0.815708697 0.758089793 0.748784992
0.743739317 0.735734837 0.708059511 0.812238246 0.863038194 0.933853209 0.998703259
0.997371679 1 0.992943969 0.891482284 0.907448145 0.920179464 0.888322804
0.938950352 0.912123305 0.899174539 0.8569688 0.806848803 0.713117291 0.695167944)

New "Loadshape.MT-Tipo4_DO" 24 1.0 mult=(0.9372069 0.913340071 0.924120654
0.93079313 0.93080706 0.90662624 0.923610473 0.899546091 0.88879239 0.923828157
0.920074949 0.962651545 0.930752824 0.939713743 0.944442843 0.914247606 0.959474966
0.918107991 0.98177698 0.979055353 0.981313691 1 0.977504593 0.97030263)

New "Loadshape.MT-Tipo4_DU" 24 1.0 mult=(0.068380784 0.072902194 0.07320887
0.074853826 0.09488548 0.133892415 0.240677361 0.496583898 0.809199761 0.986289575 1
0.919725739 0.644329 0.813138006 0.906526261 0.896488313 0.83020632 0.490628285
0.155145748 0.113550237 0.09199926 0.079839385 0.073835162 0.065458)

New "Loadshape.MT-Tipo4_SA" 24 1.0 mult=(0.451636486 0.469215417 0.48231429
0.459130883 0.485121279 0.50991594 0.600888847 0.783570743 0.909264978 0.940325587 1
0.885955813 0.684916357 0.63802952 0.634656045 0.607756158 0.526509761 0.512734851
0.488787104 0.481542029 0.460774028 0.453182774 0.46042356 0.460961122)

New "Loadshape.MT-Tipo5_DO" 24 1.0 mult=(0.872185009 0.84919434 0.828177964
0.813136214 0.803863704 0.810793976 0.795698315 0.752241578 0.813461623 0.835635588
0.890504461 0.943046932 0.989950992 1 0.990723068 0.986333425 0.941170704
0.945249741 0.979016123 0.994865858 0.986954475 0.946229571 0.925206267 0.895263816)

New "Loadshape.MT-Tipo5_DU" 24 1.0 mult=(0.232695218 0.214912145 0.211880097
0.207860637 0.204897558 0.204835446 0.217474329 0.280766628 0.484914103 0.65052207
0.799093554 0.91562699 0.909374873 0.967799262 1 0.994650363 0.965834712 0.79833248
0.559561959 0.396060235 0.277833595 0.261619131 0.256033802 0.232636697)

New "Loadshape.MT-Tipo5_SA" 24 1.0 mult=(0.725299926 0.711143316 0.709060626
0.700734753 0.686253676 0.670257232 0.666779552 0.666830229 0.788221962 0.852701003
0.926544757 0.958460919 0.969545313 0.976715388 0.989817395 1 0.948784365 0.88408451
0.855135033 0.830330461 0.850849983 0.818698333 0.76714322 0.743953653)

New "Loadshape.MT-Tipo6_DO" 24 1.0 mult=(0.939966145 0.917299513 0.902773134
0.852551351 0.858210887 0.869823196 0.850446913 0.884814541 0.865937218 0.844922466
0.901493795 0.921336674 0.938826239 0.951780049 0.946908401 0.993165392 1
0.988010867 0.992744421 0.968196033 0.985129665 0.980731957 0.965657444 0.939306661)

New "Loadshape.MT-Tipo6_DU" 24 1.0 mult=(0.813946562 0.804669181 0.78740113
0.734498288 0.747015899 0.760501255 0.787259893 0.825644882 0.837680443 0.907030855
0.914012139 0.930304665 0.94089402 0.94882179 0.980591208 0.977440851 1 0.973871753
0.905171091 0.911273875 0.88316805 0.875828468 0.846262175 0.84141267)

New "Loadshape.MT-Tipo6_SA" 24 1.0 mult=(0.865202908 0.858464169 0.840552209
0.793297715 0.801181945 0.807996591 0.822039417 0.853726343 0.836547533 0.909884246
0.925116507 0.907002455 0.911272116 0.947479982 0.962796814 0.95994756 1 0.959584029
0.913585828 0.936949365 0.915603542 0.894951732 0.900659829 0.889202324)

!Criação da seção de energymeters/monitors de barramento

New "Energymeter.BusA4-_2021126072_SEGMMT_53951427"
element="Line.SMT_53951427" terminal=1

New "Monitor.feeder" element="Line.SMT_53951427" terminal=1 mode=1 ppolar=no

New "Monitor.trf_5286699a" element="Transformer.trf_5286699a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286707a" element="Transformer.trf_5286707a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286708a" element="Transformer.trf_5286708a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286718a" element="Transformer.trf_5286718a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286787a" element="Transformer.trf_5286787a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286788a" element="Transformer.trf_5286788a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286789a" element="Transformer.trf_5286789a" terminal=2 mode=1
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New "Monitor.trf_5286790a" element="Transformer.trf_5286790a" terminal=2 mode=1
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New "Monitor.trf_5286791a" element="Transformer.trf_5286791a" terminal=2 mode=1
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New "Monitor.trf_5286792a" element="Transformer.trf_5286792a" terminal=2 mode=1
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New "Monitor.trf_5286793a" element="Transformer.trf_5286793a" terminal=2 mode=1
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New "Monitor.trf_5286794a" element="Transformer.trf_5286794a" terminal=2 mode=1
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New "Monitor.trf_5286795a" element="Transformer.trf_5286795a" terminal=2 mode=1
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New "Monitor.trf_5286796a" element="Transformer.trf_5286796a" terminal=2 mode=1
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New "Monitor.trf_5286797a" element="Transformer.trf_5286797a" terminal=2 mode=1
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New "Monitor.trf_5286798a" element="Transformer.trf_5286798a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286799a" element="Transformer.trf_5286799a" terminal=2 mode=1
ppolar=no

New "Monitor.trf_5286800a" element="Transformer.trf_5286800a" terminal=2 mode=1
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New "Monitor.trf_5286801a" element="Transformer.trf_5286801a" terminal=2 mode=1
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New "Monitor.trf_5286802a" element="Transformer.trf_5286802a" terminal=2 mode=1
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New "Monitor.trf_5286803a" element="Transformer.trf_5286803a" terminal=2 mode=1
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New "Monitor.trf_5286804a" element="Transformer.trf_5286804a" terminal=2 mode=1
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New "Monitor.trf_5286805a" element="Transformer.trf_5286805a" terminal=2 mode=1
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New "Monitor.trf_5286806a" element="Transformer.trf_5286806a" terminal=2 mode=1
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New "Monitor.trf_5286807a" element="Transformer.trf_5286807a" terminal=2 mode=1
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New "Monitor.trf_5286808a" element="Transformer.trf_5286808a" terminal=2 mode=1
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New "Monitor.trf_5286809a" element="Transformer.trf_5286809a" terminal=2 mode=1
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New "Monitor.trf_5286810a" element="Transformer.trf_5286810a" terminal=2 mode=1
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New "Monitor.trf_5286811a" element="Transformer.trf_5286811a" terminal=2 mode=1
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New "Monitor.trf_5286812a" element="Transformer.trf_5286812a" terminal=2 mode=1
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New "Monitor.trf_5286813a" element="Transformer.trf_5286813a" terminal=2 mode=1
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New "Monitor.trf_5286814a" element="Transformer.trf_5286814a" terminal=2 mode=1
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New "Monitor.trf_5286815a" element="Transformer.trf_5286815a" terminal=2 mode=1
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New "Monitor.trf_5286816a" element="Transformer.trf_5286816a" terminal=2 mode=1
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New "Monitor.trf_5286817a" element="Transformer.trf_5286817a" terminal=2 mode=1
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New "Monitor.trf_5286818a" element="Transformer.trf_5286818a" terminal=2 mode=1
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New "Monitor.trf_5286819a" element="Transformer.trf_5286819a" terminal=2 mode=1
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New "Monitor.trf_5286820a" element="Transformer.trf_5286820a" terminal=2 mode=1
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New "Monitor.trf_5286828a" element="Transformer.trf_5286828a" terminal=2 mode=1
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New "Monitor.trf_5286829a" element="Transformer.trf_5286829a" terminal=2 mode=1
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New "Monitor.trf_5286830a" element="Transformer.trf_5286830a" terminal=2 mode=1
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New "Monitor.trf_5286832a" element="Transformer.trf_5286832a" terminal=2 mode=1
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New "Monitor.trf_5286837a" element="Transformer.trf_5286837a" terminal=2 mode=1
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New "Monitor.trf_5286838a" element="Transformer.trf_5286838a" terminal=2 mode=1
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New "Monitor.trf_5286839a" element="Transformer.trf_5286839a" terminal=2 mode=1
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New "Monitor.trf_5286840a" element="Transformer.trf_5286840a" terminal=2 mode=1
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New "Monitor.trf_5286841a" element="Transformer.trf_5286841a" terminal=2 mode=1
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New "Monitor.trf_5286842a" element="Transformer.trf_5286842a" terminal=2 mode=1
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New "Monitor.trf_5286843a" element="Transformer.trf_5286843a" terminal=2 mode=1
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New "Monitor.trf_5286844a" element="Transformer.trf_5286844a" terminal=2 mode=1
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New "Monitor.trf_5286845a" element="Transformer.trf_5286845a" terminal=2 mode=1
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New "Monitor.trf_5286846a" element="Transformer.trf_5286846a" terminal=2 mode=1
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New "Monitor.trf_5286857a" element="Transformer.trf_5286857a" terminal=2 mode=1
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New "Monitor.trf_5286858a" element="Transformer.trf_5286858a" terminal=2 mode=1
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New "Monitor.trf_5286860a" element="Transformer.trf_5286860a" terminal=2 mode=1
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New "Monitor.trf_5286861a" element="Transformer.trf_5286861a" terminal=2 mode=1
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New "Monitor.trf_5286862a" element="Transformer.trf_5286862a" terminal=2 mode=1
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New "Monitor.trf_5286863a" element="Transformer.trf_5286863a" terminal=2 mode=1
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New "Monitor.trf_5286864a" element="Transformer.trf_5286864a" terminal=2 mode=1
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New "Monitor.trf_5286865a" element="Transformer.trf_5286865a" terminal=2 mode=1
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New "Monitor.trf_5286866a" element="Transformer.trf_5286866a" terminal=2 mode=1
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New "Monitor.trf_5286914a" element="Transformer.trf_5286914a" terminal=2 mode=1
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New "Monitor.trf_5286918a" element="Transformer.trf_5286918a" terminal=2 mode=1
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New "Monitor.trf_5286930a" element="Transformer.trf_5286930a" terminal=2 mode=1
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New "Monitor.trf_5286931a" element="Transformer.trf_5286931a" terminal=2 mode=1
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New "Monitor.trf_5286933a" element="Transformer.trf_5286933a" terminal=2 mode=1
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New "Monitor.trf_5286936a" element="Transformer.trf_5286936a" terminal=2 mode=1
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New "Monitor.trf_5286937a" element="Transformer.trf_5286937a" terminal=2 mode=1
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New "Monitor.trf_5286938a" element="Transformer.trf_5286938a" terminal=2 mode=1
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New "Monitor.trf_5286939a" element="Transformer.trf_5286939a" terminal=2 mode=1
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New "Monitor.trf_5286940a" element="Transformer.trf_5286940a" terminal=2 mode=1
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New "Monitor.trf_5286941a" element="Transformer.trf_5286941a" terminal=2 mode=1
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New "Monitor.trf_5286944a" element="Transformer.trf_5286944a" terminal=2 mode=1
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New "Monitor.trf_5286945a" element="Transformer.trf_5286945a" terminal=2 mode=1
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New "Monitor.trf_5286946a" element="Transformer.trf_5286946a" terminal=2 mode=1
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New "Monitor.trf_5470133a" element="Transformer.trf_5470133a" terminal=2 mode=1
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New "Monitor.trf_5505307a" element="Transformer.trf_5505307a" terminal=2 mode=1
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New "Monitor.trf_5535535a" element="Transformer.trf_5535535a" terminal=2 mode=1
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New "Monitor.trf_5537656a" element="Transformer.trf_5537656a" terminal=2 mode=1
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New "Monitor.trf_5547722a" element="Transformer.trf_5547722a" terminal=2 mode=1
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New "Monitor.trf_5551754a" element="Transformer.trf_5551754a" terminal=2 mode=1
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New "Monitor.trf_5552038a" element="Transformer.trf_5552038a" terminal=2 mode=1
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New "Monitor.trf_5552309a" element="Transformer.trf_5552309a" terminal=2 mode=1
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New "Monitor.trf_5552553a" element="Transformer.trf_5552553a" terminal=2 mode=1
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New "Monitor.trf_5552819a" element="Transformer.trf_5552819a" terminal=2 mode=1
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New "Monitor.trf_5569878a" element="Transformer.trf_5569878a" terminal=2 mode=1
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New "Monitor.trf_5555964a" element="Transformer.trf_5555964a" terminal=2 mode=1
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New "Monitor.trf_5557353a" element="Transformer.trf_5557353a" terminal=2 mode=1
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New "Monitor.trf_5558213a" element="Transformer.trf_5558213a" terminal=2 mode=1
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New "Monitor.trf_5560489a" element="Transformer.trf_5560489a" terminal=2 mode=1
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New "Monitor.trf_5574596a" element="Transformer.trf_5574596a" terminal=2 mode=1
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New "Monitor.trf_5577671a" element="Transformer.trf_5577671a" terminal=2 mode=1
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New "Monitor.trf_5286947a" element="Transformer.trf_5286947a" terminal=2 mode=1
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New "Monitor.trf_5286958a" element="Transformer.trf_5286958a" terminal=2 mode=1
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New "Monitor.trf_5286959a" element="Transformer.trf_5286959a" terminal=2 mode=1
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New "Monitor.trf_5286960a" element="Transformer.trf_5286960a" terminal=2 mode=1
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New "Monitor.trf_5286961a" element="Transformer.trf_5286961a" terminal=2 mode=1
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New "Monitor.trf_5286962a" element="Transformer.trf_5286962a" terminal=2 mode=1
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New "Monitor.trf_5286963a" element="Transformer.trf_5286963a" terminal=2 mode=1
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New "Monitor.trf_5286964a" element="Transformer.trf_5286964a" terminal=2 mode=1
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New "Monitor.trf_5286965a" element="Transformer.trf_5286965a" terminal=2 mode=1
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New "Monitor.trf_5286966a" element="Transformer.trf_5286966a" terminal=2 mode=1
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New "Monitor.trf_5286967a" element="Transformer.trf_5286967a" terminal=2 mode=1
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New "Monitor.trf_5688575a" element="Transformer.trf_5688575a" terminal=2 mode=1
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New "Monitor.trf_5675373a" element="Transformer.trf_5675373a" terminal=2 mode=1
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New "Monitor.trf_5323939a" element="Transformer.trf_5323939a" terminal=2 mode=1
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New "Monitor.trf_5702287a" element="Transformer.trf_5702287a" terminal=2 mode=1
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New "Monitor.trf_5444435a" element="Transformer.trf_5444435a" terminal=2 mode=1
ppolar=no

! Criação da seção de tensões de base

Set voltagebases=[0.38000000 0.44000000 13.80000000]

Calc voltage bases

! Criação da seção de transformadores MT-MT ou MT-BT

```
!New "Transformer.TRF_5286696A" phases=1 windings=3
buses=["MRT_82033655002086TRF_5286696A.2" "82033655286696.1.4"
"82033655286696.4.2"] conns=[Wye Wye Wye] kvs=[7.96743371481684 0.22 0.22] taps=[1
1.05 1.05] kvas=[15 15 15] %loadloss=1.6 %noloadloss=0.4
```

```
!New "Linecode.LC_MRT_TRF_5286696A_1" nphases=1 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
New "Linecode.LC_MRT_TRF_5286696A_2" nphases=2 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
New "Linecode.LC_MRT_TRF_5286696A_3" nphases=3 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
New "Linecode.LC_MRT_TRF_5286696A_4" nphases=4 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
!New "Line.Resist_MTR_TRF_5286696A" phases=1 bus1="82033655002086.2"
bus2="MRT_82033655002086TRF_5286696A.2" linecode="ABC_1" length=0.001 units=km
```

```
!New "Reactor.TRF_5286696A_R" phases=1 bus1=82033655286696.4 R=15 X=0 basefreq=60
```

```
New "Transformer.TRF_5286699A" phases=1 windings=3
buses=["MRT_82034475002086TRF_5286699A.2" "82034475286699.1.4"
"82034475286699.4.2"] conns=[Wye Wye Wye] kvs=[7.96743371481684 0.22 0.22] taps=[1
1.05 1.05] kvas=[10 10 10] %loadloss=1.8 %noloadloss=0.45
```

```
New "Linecode.LC_MRT_TRF_5286699A_1" nphases=1 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
New "Linecode.LC_MRT_TRF_5286699A_2" nphases=2 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
New "Linecode.LC_MRT_TRF_5286699A_3" nphases=3 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
New "Linecode.LC_MRT_TRF_5286699A_4" nphases=4 basefreq=60 r1=15000 x1=0
units=km normamps=0
```

```
New "Line.Resist_MTR_TRF_5286699A" phases=1 bus1="82034475002086.2"
bus2="MRT_82034475002086TRF_5286699A.2" linecode="LC_MRT_TRF_5286699A_1"
length=0.001 units=km
```

```
New "Reactor.TRF_5286699A_R" phases=1 bus1=82034475286699.4 R=15 X=0 basefreq=60
```

```
New "Transformer.TRF_5286707A" phases=3 windings=2 buses=["82034835002086.1.2.3"
"82034835286707.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.5222222222222222 %noloadloss=0.3777777777777778
```

```
New "Reactor.TRF_5286707A_R" phases=1 bus1=82034835286707.4 R=15 X=0 basefreq=60
```

```
New "Transformer.TRF_5286708A" phases=1 windings=3
buses=["MRT_82034845002086TRF_5286708A.2" "82034845286708.1.4"
```

"82034845286708.4.2"] conns=[Wye Wye Wye] kvs=[7.96743371481684 0.22 0.22] taps=[1 1.05 1.05] kvas=[15 15 15] %loadloss=1.6 %noloadloss=0.4

New "Linecode.LC_MRT_TRF_5286708A_1" nphases=1 basefreq=60 r1=15000 x1=0 units=km normamps=0

New "Linecode.LC_MRT_TRF_5286708A_2" nphases=2 basefreq=60 r1=15000 x1=0 units=km normamps=0

New "Linecode.LC_MRT_TRF_5286708A_3" nphases=3 basefreq=60 r1=15000 x1=0 units=km normamps=0

New "Linecode.LC_MRT_TRF_5286708A_4" nphases=4 basefreq=60 r1=15000 x1=0 units=km normamps=0

New "Line.Resist_MTR_TRF_5286708A" phases=1 bus1="82034845002086.2" bus2="MRT_82034845002086TRF_5286708A.2" linecode="LC_MRT_TRF_5286708A_1" length=0.001 units=km

New "Reactor.TRF_5286708A_R" phases=1 bus1=82034845286708.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286718A" phases=3 windings=2 buses=["82053655002086.1.2.3" "82053655286718.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45] %loadloss=1.5222222222222222 %noloadloss=0.3777777777777778

New "Reactor.TRF_5286718A_R" phases=1 bus1=82053655286718.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286787A" phases=3 windings=2 buses=["82023305002086.1.2.3" "82023305286787.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5 112.5] %loadloss=1.2177777777777778 %noloadloss=0.2977777777777778

New "Reactor.TRF_5286787A_R" phases=1 bus1=82023305286787.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286788A" phases=3 windings=2 buses=["82023395002086.1.2.3" "82023395286788.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5 112.5] %loadloss=1.2177777777777778 %noloadloss=0.2977777777777778

New "Reactor.TRF_5286788A_R" phases=1 bus1=82023395286788.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286789A" phases=3 windings=2 buses=["82022295002086.1.2.3" "82022295286789.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75] %loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286789A_R" phases=1 bus1=82022295286789.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286790A" phases=3 windings=2 buses=["82022455002086.1.2.3" "82022455286790.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150] %loadloss=1.126666666666667 %noloadloss=0.28

New "Reactor.TRF_5286790A_R" phases=1 bus1=82022455286790.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286791A" phases=3 windings=2 buses=["82022605002086.1.2.3" "82022605286791.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150] %loadloss=1.126666666666667 %noloadloss=0.28

New "Reactor.TRF_5286791A_R" phases=1 bus1=82022605286791.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286792A" phases=3 windings=2 buses=["82019965002086.1.2.3"
"82019965286792.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.126666666666667 %noloadloss=0.28

New "Reactor.TRF_5286792A_R" phases=1 bus1=82019965286792.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286793A" phases=3 windings=2 buses=["82020055002086.1.2.3"
"82020055286793.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286793A_R" phases=1 bus1=82020055286793.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286794A" phases=3 windings=2 buses=["82020175002086.1.2.3"
"82020175286794.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286794A_R" phases=1 bus1=82020175286794.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286795A" phases=3 windings=2 buses=["82020405002086.1.2.3"
"82020405286795.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.126666666666667 %noloadloss=0.28

New "Reactor.TRF_5286795A_R" phases=1 bus1=82020405286795.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286796A" phases=3 windings=2 buses=["82020555002086.1.2.3"
"82020555286796.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286796A_R" phases=1 bus1=82020555286796.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286797A" phases=3 windings=2 buses=["82020675002086.1.2.3"
"82020675286797.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286797A_R" phases=1 bus1=82020675286797.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286798A" phases=3 windings=2 buses=["82021885002086.1.2.3"
"82021885286798.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286798A_R" phases=1 bus1=82021885286798.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286799A" phases=3 windings=2 buses=["82021995002086.1.2.3"
"82021995286799.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5286799A_R" phases=1 bus1=82021995286799.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286800A" phases=3 windings=2 buses=["82024325002086.1.2.3"
"82024325286800.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5286800A_R" phases=1 bus1=82024325286800.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286801A" phases=3 windings=2 buses=["82022225002086.1.2.3"
"82022225286801.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286801A_R" phases=1 bus1=82022225286801.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286802A" phases=3 windings=2 buses=["82021615002086.1.2.3"
"82021615286802.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286802A_R" phases=1 bus1=82021615286802.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286803A" phases=3 windings=2 buses=["82036745002086.1.2.3"
"82036745286803.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286803A_R" phases=1 bus1=82036745286803.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286804A" phases=3 windings=2 buses=["82033055002086.1.2.3"
"82033055286804.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286804A_R" phases=1 bus1=82033055286804.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286805A" phases=3 windings=2 buses=["82033395002086.1.2.3"
"82033395286805.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286805A_R" phases=1 bus1=82033395286805.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286806A" phases=3 windings=2 buses=["82024965002086.1.2.3"
"82024965286806.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.12666666666667 %noloadloss=0.28

New "Reactor.TRF_5286806A_R" phases=1 bus1=82024965286806.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286807A" phases=3 windings=2 buses=["90855665002086.1.2.3"
"90855665286807.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286807A_R" phases=1 bus1=90855665286807.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286808A" phases=3 windings=2 buses=["82027905002086.1.2.3"
"82027905286808.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286808A_R" phases=1 bus1=82027905286808.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286809A" phases=3 windings=2 buses=["82028045002086.1.2.3"
"82028045286809.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.12666666666667 %noloadloss=0.28

New "Reactor.TRF_5286809A_R" phases=1 bus1=82028045286809.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286810A" phases=3 windings=2 buses=["82028035002086.1.2.3"
"82028035286810.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286810A_R" phases=1 bus1=82028035286810.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286811A" phases=3 windings=2 buses=["82026685002086.1.2.3"
"82026685286811.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286811A_R" phases=1 bus1=82026685286811.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286812A" phases=3 windings=2 buses=["82026915002086.1.2.3"
"82026915286812.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286812A_R" phases=1 bus1=82026915286812.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286813A" phases=3 windings=2 buses=["82028365002086.1.2.3"
"82028365286813.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286813A_R" phases=1 bus1=82028365286813.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286814A" phases=3 windings=2 buses=["82027655002086.1.2.3"
"82027655286814.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286814A_R" phases=1 bus1=82027655286814.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286815A" phases=3 windings=2 buses=["82027735002086.1.2.3"
"82027735286815.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286815A_R" phases=1 bus1=82027735286815.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286816A" phases=3 windings=2 buses=["82029355002086.1.2.3"
"82029355286816.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.12666666666667 %noloadloss=0.28

New "Reactor.TRF_5286816A_R" phases=1 bus1=82029355286816.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286817A" phases=3 windings=2 buses=["82029275002086.1.2.3"
"82029275286817.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286817A_R" phases=1 bus1=82029275286817.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286818A" phases=3 windings=2 buses=["82028855002086.1.2.3"
"82028855286818.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286818A_R" phases=1 bus1=82028855286818.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286819A" phases=3 windings=2 buses=["82027135002086.1.2.3"
"82027135286819.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286819A_R" phases=1 bus1=82027135286819.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286820A" phases=3 windings=2 buses=["82026625002086.1.2.3"
"82026625286820.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286820A_R" phases=1 bus1=82026625286820.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286821A" phases=3 windings=2 buses=["82025745002086.1.2.3"
"82025745286821.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286821A_R" phases=1 bus1=82025745286821.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286828A" phases=3 windings=2 buses=["82042655002086.1.2.3"
"82042655286828.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286828A_R" phases=1 bus1=82042655286828.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286829A" phases=3 windings=2 buses=["81490995002086.1.2.3"
"81490995286829.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286829A_R" phases=1 bus1=81490995286829.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286830A" phases=3 windings=2 buses=["81460505002086.1.2.3"
"81460505286830.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286830A_R" phases=1 bus1=81460505286830.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286831A" phases=3 windings=2 buses=["82043025002086.1.2.3"
"82043025286831.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286831A_R" phases=1 bus1=82043025286831.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286832A" phases=3 windings=2 buses=["82042575002086.1.2.3"
"82042575286832.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286832A_R" phases=1 bus1=82042575286832.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286833A" phases=3 windings=2 buses=["82041995002086.1.2.3"
"82041995286833.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.12666666666667 %noloadloss=0.28

New "Reactor.TRF_5286833A_R" phases=1 bus1=82041995286833.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286834A" phases=3 windings=2 buses=["82038095002086.1.2.3"
"82038095286834.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286834A_R" phases=1 bus1=82038095286834.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286835A" phases=3 windings=2 buses=["82038115002086.1.2.3"
"82038115286835.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286835A_R" phases=1 bus1=82038115286835.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286836A" phases=3 windings=2 buses=["82041105002086.1.2.3"
"82041105286836.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286836A_R" phases=1 bus1=82041105286836.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286837A" phases=3 windings=2 buses=["82041215002086.1.2.3"
"82041215286837.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286837A_R" phases=1 bus1=82041215286837.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286838A" phases=3 windings=2 buses=["82041905002086.1.2.3"
"82041905286838.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286838A_R" phases=1 bus1=82041905286838.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286839A" phases=3 windings=2 buses=["82038825002086.1.2.3"
"82038825286839.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286839A_R" phases=1 bus1=82038825286839.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286840A" phases=3 windings=2 buses=["82037555002086.1.2.3"
"82037555286840.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286840A_R" phases=1 bus1=82037555286840.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286841A" phases=3 windings=2 buses=["82039455002086.1.2.3"
"82039455286841.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286841A_R" phases=1 bus1=82039455286841.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286842A" phases=3 windings=2 buses=["82039695002086.1.2.3"
"82039695286842.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286842A_R" phases=1 bus1=82039695286842.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286843A" phases=3 windings=2 buses=["82042105002086.1.2.3"
"82042105286843.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286843A_R" phases=1 bus1=82042105286843.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286844A" phases=3 windings=2 buses=["82042165002086.1.2.3"
"82042165286844.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286844A_R" phases=1 bus1=82042165286844.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286845A" phases=3 windings=2 buses=["82042275002086.1.2.3"
"82042275286845.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286845A_R" phases=1 bus1=82042275286845.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286846A" phases=3 windings=2 buses=["82041545002086.1.2.3"
"82041545286846.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286846A_R" phases=1 bus1=82041545286846.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286857A" phases=3 windings=2 buses=["82062475002086.1.2.3"
"82062475286857.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286857A_R" phases=1 bus1=82062475286857.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286858A" phases=3 windings=2 buses=["82064145002086.1.2.3"
"82064145286858.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286858A_R" phases=1 bus1=82064145286858.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286860A" phases=3 windings=2 buses=["82065235002086.1.2.3"
"82065235286860.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286860A_R" phases=1 bus1=82065235286860.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286861A" phases=3 windings=2 buses=["82064065002086.1.2.3"
"82064065286861.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286861A_R" phases=1 bus1=82064065286861.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286862A" phases=3 windings=2 buses=["82065285002086.1.2.3"
"82065285286862.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286862A_R" phases=1 bus1=82065285286862.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286863A" phases=3 windings=2 buses=["82064825002086.1.2.3"
"82064825286863.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286863A_R" phases=1 bus1=82064825286863.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286864A" phases=3 windings=2 buses=["82064425002086.1.2.3"
"82064425286864.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286864A_R" phases=1 bus1=82064425286864.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286865A" phases=3 windings=2 buses=["82065005002086.1.2.3"
"82065005286865.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286865A_R" phases=1 bus1=82065005286865.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286866A" phases=3 windings=2 buses=["82063385002086.1.2.3"
"82063385286866.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286866A_R" phases=1 bus1=82063385286866.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286867A" phases=3 windings=2 buses=["82044385002086.1.2.3"
"82044385286867.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286867A_R" phases=1 bus1=82044385286867.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286871A" phases=3 windings=2 buses=["82055725002086.1.2.3"
"82055725286871.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286871A_R" phases=1 bus1=82055725286871.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286872A" phases=3 windings=2 buses=["82054825002086.1.2.3"
"82054825286872.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286872A_R" phases=1 bus1=82054825286872.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286890A" phases=3 windings=2 buses=["82056915002086.1.2.3"
"82056915286890.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286890A_R" phases=1 bus1=82056915286890.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286891A" phases=3 windings=2 buses=["82056385002086.1.2.3"
"82056385286891.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286891A_R" phases=1 bus1=82056385286891.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286914A" phases=3 windings=2 buses=["82053635002086.1.2.3"
"82053635286914.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286914A_R" phases=1 bus1=82053635286914.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286915A" phases=3 windings=2 buses=["82054535002086.1.2.3"
"82054535286915.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286915A_R" phases=1 bus1=82054535286915.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286916A" phases=3 windings=2 buses=["82054235002086.1.2.3"
"82054235286916.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286916A_R" phases=1 bus1=82054235286916.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286917A" phases=3 windings=2 buses=["82054305002086.1.2.3"
"82054305286917.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286917A_R" phases=1 bus1=82054305286917.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286918A" phases=3 windings=2 buses=["82053975002086.1.2.3"
"82053975286918.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286918A_R" phases=1 bus1=82053975286918.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286919A" phases=3 windings=2 buses=["82060535002086.1.2.3"
"82060535286919.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286919A_R" phases=1 bus1=82060535286919.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286930A" phases=3 windings=2 buses=["82049375002086.1.2.3"
"82049375286930.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286930A_R" phases=1 bus1=82049375286930.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286931A" phases=3 windings=2 buses=["82049545002086.1.2.3"
"82049545286931.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286931A_R" phases=1 bus1=82049545286931.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286932A" phases=3 windings=2 buses=["82049765002086.1.2.3"
"82049765286932.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.12666666666667 %noloadloss=0.28

New "Reactor.TRF_5286932A_R" phases=1 bus1=82049765286932.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286933A" phases=3 windings=2 buses=["82049805002086.1.2.3"
"82049805286933.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286933A_R" phases=1 bus1=82049805286933.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286934A" phases=3 windings=2 buses=["82049885002086.1.2.3"
"82049885286934.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286934A_R" phases=1 bus1=82049885286934.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286935A" phases=3 windings=2 buses=["82050325002086.1.2.3"
"82050325286935.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5286935A_R" phases=1 bus1=82050325286935.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286936A" phases=3 windings=2 buses=["82049975002086.1.2.3"
"82049975286936.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286936A_R" phases=1 bus1=82049975286936.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286937A" phases=3 windings=2 buses=["82050035002086.1.2.3"
"82050035286937.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5286937A_R" phases=1 bus1=82050035286937.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286938A" phases=3 windings=2 buses=["82050465002086.1.2.3"
"82050465286938.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286938A_R" phases=1 bus1=82050465286938.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286939A" phases=3 windings=2 buses=["82039815002086.1.2.3"
"82039815286939.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286939A_R" phases=1 bus1=82039815286939.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286940A" phases=3 windings=2 buses=["82039945002086.1.2.3"
"82039945286940.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286940A_R" phases=1 bus1=82039945286940.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286941A" phases=3 windings=2 buses=["82040015002086.1.2.3"
"82040015286941.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286941A_R" phases=1 bus1=82040015286941.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286942A" phases=3 windings=2 buses=["82040165002086.1.2.3"
"82040165286942.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5286942A_R" phases=1 bus1=82040165286942.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286943A" phases=3 windings=2 buses=["82040265002086.1.2.3"
"82040265286943.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5286943A_R" phases=1 bus1=82040265286943.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286944A" phases=3 windings=2 buses=["82039725002086.1.2.3"
"82039725286944.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286944A_R" phases=1 bus1=82039725286944.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286945A" phases=3 windings=2 buses=["82040415002086.1.2.3"
"82040415286945.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286945A_R" phases=1 bus1=82040415286945.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286946A" phases=3 windings=2 buses=["82040575002086.1.2.3"
"82040575286946.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5286946A_R" phases=1 bus1=82040575286946.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5440862A" phases=3 windings=2 buses=["81479715002086.1.2.3"
"81479715440862.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5440862A_R" phases=1 bus1=81479715440862.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5469845A" phases=3 windings=2 buses=["82032105002086.1.2.3"
"82032105469845.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5469845A_R" phases=1 bus1=82032105469845.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5470133A" phases=3 windings=2 buses=["82034125002086.1.2.3"
"82034125470133.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5470133A_R" phases=1 bus1=82034125470133.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5472282A" phases=3 windings=2 buses=["87774405002086.1.2.3"
"87774405472282.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5472282A_R" phases=1 bus1=87774405472282.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5479360A" phases=3 windings=2 buses=["81460535002086.1.2.3"
"81460535479360.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[30 30]
%loadloss=1.666666666666667 %noloadloss=0.433333333333333

New "Reactor.TRF_5479360A_R" phases=1 bus1=81460535479360.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5491509A" phases=3 windings=2 buses=["88287355002086.1.2.3"
"88287355491509.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5491509A_R" phases=1 bus1=88287355491509.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5499009A" phases=3 windings=2 buses=["82062715002086.1.2.3"
"82062715499009.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5499009A_R" phases=1 bus1=82062715499009.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5485359A" phases=3 windings=2 buses=["88109845002086.1.2.3"
"88109845485359.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5485359A_R" phases=1 bus1=88109845485359.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5502834A" phases=3 windings=2 buses=["82026575002086.1.2.3"
"82026575502834.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5502834A_R" phases=1 bus1=82026575502834.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5505307A" phases=3 windings=2 buses=["82034555002086.1.2.3"
"82034555505307.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5505307A_R" phases=1 bus1=82034555505307.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5535535A" phases=3 windings=2 buses=["89701935002086.1.2.3"
"89701935535535.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5535535A_R" phases=1 bus1=89701935535535.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5537656A" phases=3 windings=2 buses=["89813615002086.1.2.3"
"89813615537656.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[225 225]
%loadloss=1.06 %noloadloss=0.248888888888889

New "Reactor.TRF_5537656A_R" phases=1 bus1=89813615537656.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5547722A" phases=3 windings=2 buses=["90017985002086.1.2.3"
"90017985547722.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5547722A_R" phases=1 bus1=90017985547722.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5551754A" phases=3 windings=2 buses=["82061675002086.1.2.3"
"8206167551754.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5551754A_R" phases=1 bus1=8206167551754.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5552038A" phases=3 windings=2 buses=["90190165002086.1.2.3"
"9019016552038.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.126666666666667 %noloadloss=0.28

New "Reactor.TRF_5552038A_R" phases=1 bus1=9019016552038.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5552309A" phases=3 windings=2 buses=["82024125002086.1.2.3"
"8202412552309.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5552309A_R" phases=1 bus1=8202412552309.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5552553A" phases=3 windings=2 buses=["90214315002086.1.2.3"
"9021431552553.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5552553A_R" phases=1 bus1=9021431552553.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5552819A" phases=3 windings=2 buses=["82032765002086.1.2.3"
"8203276552819.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.126666666666667 %noloadloss=0.28

New "Reactor.TRF_5552819A_R" phases=1 bus1=8203276552819.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5569878A" phases=3 windings=2 buses=["82055955002086.1.2.3"
"82055955569878.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5569878A_R" phases=1 bus1=82055955569878.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5555964A" phases=3 windings=2 buses=["90305705002086.1.2.3"
"9030570555964.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.126666666666667 %noloadloss=0.28

New "Reactor.TRF_5555964A_R" phases=1 bus1=9030570555964.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5557353A" phases=3 windings=2 buses=["82044325002086.1.2.3"
"8204432557353.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5557353A_R" phases=1 bus1=8204432557353.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5558213A" phases=3 windings=2 buses=["90349975002086.1.2.3"
"90349975558213.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5558213A_R" phases=1 bus1=90349975558213.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5560489A" phases=3 windings=2 buses=["90409505002086.1.2.3"
"90409505560489.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5560489A_R" phases=1 bus1=90409505560489.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5574596A" phases=3 windings=2 buses=["82031945002086.1.2.3"
"82031945574596.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.217777777777778 %noloadloss=0.297777777777778

New "Reactor.TRF_5574596A_R" phases=1 bus1=82031945574596.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5577671A" phases=3 windings=2 buses=["90938795002086.1.2.3"
"90938795577671.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5577671A_R" phases=1 bus1=90938795577671.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286947A" phases=3 windings=2 buses=["82040855002086.1.2.3"
"82040855286947.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286947A_R" phases=1 bus1=82040855286947.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286958A" phases=3 windings=2 buses=["82031405002086.1.2.3"
"82031405286958.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286958A_R" phases=1 bus1=82031405286958.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286959A" phases=3 windings=2 buses=["82031445002086.1.2.3"
"82031445286959.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286959A_R" phases=1 bus1=82031445286959.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286960A" phases=3 windings=2 buses=["82033945002086.1.2.3"
"82033945286960.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286960A_R" phases=1 bus1=82033945286960.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286961A" phases=3 windings=2 buses=["97400945002086.1.2.3"
"97400945286961.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.12666666666667 %noloadloss=0.28

New "Reactor.TRF_5286961A_R" phases=1 bus1=97400945286961.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286962A" phases=3 windings=2 buses=["82034445002086.1.2.3"
"82034445286962.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5286962A_R" phases=1 bus1=82034445286962.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286963A" phases=3 windings=2 buses=["82035255002086.1.2.3"
"82035255286963.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5286963A_R" phases=1 bus1=82035255286963.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286964A" phases=3 windings=2 buses=["82036275002086.1.2.3"
"82036275286964.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286964A_R" phases=1 bus1=82036275286964.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286965A" phases=3 windings=2 buses=["82035485002086.1.2.3"
"82035485286965.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286965A_R" phases=1 bus1=82035485286965.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286966A" phases=3 windings=2 buses=["82036045002086.1.2.3"
"82036045286966.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5286966A_R" phases=1 bus1=82036045286966.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5286967A" phases=3 windings=2 buses=["82029725002086.1.2.3"
"82029725286967.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5286967A_R" phases=1 bus1=82029725286967.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5647498A" phases=3 windings=2 buses=["93119985002086.1.2.3"
"93119985647498.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[300 300]
%loadloss=0.989999999999997 %noloadloss=0.233333333333333

New "Reactor.TRF_5647498A_R" phases=1 bus1=93119985647498.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5688575A" phases=3 windings=2 buses=["82054155002086.1.2.3"
"82054155688575.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5688575A_R" phases=1 bus1=82054155688575.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5675373A" phases=3 windings=2 buses=["93945325002086.1.2.3"
"93945325675373.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[150 150]
%loadloss=1.12666666666667 %noloadloss=0.28

New "Reactor.TRF_5675373A_R" phases=1 bus1=93945325675373.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5323939A" phases=3 windings=2 buses=["84503635002086.1.2.3"
"84503635323939.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5323939A_R" phases=1 bus1=84503635323939.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5702287A" phases=3 windings=2 buses=["90017935002086.1.2.3"
"90017935702287.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[45 45]
%loadloss=1.52222222222222 %noloadloss=0.37777777777778

New "Reactor.TRF_5702287A_R" phases=1 bus1=90017935702287.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5713817A" phases=3 windings=2 buses=["82034385002086.1.2.3"
"82034385713817.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[225 225]
%loadloss=1.06 %noloadloss=0.248888888888889

New "Reactor.TRF_5713817A_R" phases=1 bus1=82034385713817.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5719448A" phases=3 windings=2 buses=["95141555002086.1.2.3"
"95141555719448.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[225 225]
%loadloss=1.06 %noloadloss=0.248888888888889

New "Reactor.TRF_5719448A_R" phases=1 bus1=95141555719448.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5333902A" phases=3 windings=2 buses=["85167275002086.1.2.3"
"85167275333902.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5333902A_R" phases=1 bus1=85167275333902.4 R=15 X=0 basefreq=60

```
!New "Transformer.TRF_5736224A" phases=3 windings=2 buses=["82025135002086.1.2.3"
"82025135736224.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

!New "Reactor.TRF_5736224A_R" phases=1 bus1=82025135736224.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5740255A" phases=3 windings=2 buses=["82056945002086.1.2.3"
"82056945740255.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5740255A_R" phases=1 bus1=82056945740255.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5740270A" phases=3 windings=2 buses=["96033635002086.1.2.3"
"96033635740270.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[75 75]
%loadloss=1.34 %noloadloss=0.34

New "Reactor.TRF_5740270A_R" phases=1 bus1=96033635740270.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5744153A" phases=3 windings=2 buses=["96264655002086.1.2.3"
"96264655744153.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5744153A_R" phases=1 bus1=96264655744153.4 R=15 X=0 basefreq=60

New "Transformer.TRF_5444435A" phases=3 windings=2 buses=["81481405002086.1.2.3"
"81481405444435.1.2.3.4"] conns=[Delta Wye] kvs=[13.8 0.38] taps=[1 1.05] kvas=[112.5
112.5] %loadloss=1.21777777777778 %noloadloss=0.29777777777778

New "Reactor.TRF_5444435A_R" phases=1 bus1=81481405444435.4 R=15 X=0 basefreq=60
```

]! Criação da seção de chaves MT

```
New "Line.CMT_5281595" phases=3 bus1="81463945002086.1.2.3"
bus2="81463945002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T
```

```
New "Line.CMT_5286666" phases=3 bus1="82034695002086.1.2.3"
bus2="82034695002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T
```

```
New "Line.CMT_5286668" phases=3 bus1="82034735002086.1.2.3"
bus2="82034735002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T
```

```
New "Line.CMT_5286669" phases=3 bus1="82044285002086.1.2.3"
bus2="82044285002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T
```

```
New "Line.CMT_5286671" phases=3 bus1="82054225002086.1.2.3"
bus2="82054225002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T
```

New "Line.CMT_5286672" phases=3 bus1="82061785002086.1.2.3"
bus2="82061785002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286673" phases=3 bus1="82021065002086.1.2.3"
bus2="82021065002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286723" phases=3 bus1="82021185002086.1.2.3"
bus2="82021185002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286724" phases=3 bus1="82021295002086.1.2.3"
bus2="82021295002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286725" phases=3 bus1="82020565002086.1.2.3"
bus2="82020565002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286726" phases=3 bus1="82020685002086.1.2.3"
bus2="82020685002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286727" phases=3 bus1="82022045002086.1.2.3"
bus2="82022045002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286728" phases=3 bus1="82032965002086.1.2.3"
bus2="82032965002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286729" phases=3 bus1="82033185002086.1.2.3"
bus2="82033185002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286730" phases=3 bus1="82024945002086.1.2.3"
bus2="82024945002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286733" phases=3 bus1="82035225002086.1.2.3"
bus2="82035225002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286734" phases=3 bus1="82036255002086.1.2.3"
bus2="82036255002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286735" phases=3 bus1="82027155002086.1.2.3"
bus2="82027155002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286738" phases=3 bus1="82026665002086.1.2.3"
bus2="82026665002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286745" phases=3 bus1="81488785002086.1.2.3"
bus2="81488785002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286747" phases=3 bus1="82041135002086.1.2.3"
bus2="82041135002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286748" phases=3 bus1="82041735002086.1.2.3"
bus2="82041735002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286749" phases=3 bus1="82041395002086.1.2.3"
bus2="82041395002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286750" phases=3 bus1="82041875002086.1.2.3"
bus2="82041875002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286751" phases=3 bus1="82038835002086.1.2.3"
bus2="82038835002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286764" phases=3 bus1="82053795002086.1.2.3"
bus2="82053795002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286765" phases=3 bus1="82062465002086.1.2.3"
bus2="82062465002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286773" phases=3 bus1="82056365002086.1.2.3"
bus2="82056365002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286780" phases=3 bus1="82040105002086.1.2.3"
bus2="82040105002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286781" phases=3 bus1="82039925002086.1.2.3"
bus2="82039925002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286948" phases=3 bus1="82032935002086.1.2.3"
bus2="82032935002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286952" phases=3 bus1="82049705002086.1.2.3"
bus2="82049705002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286954" phases=3 bus1="82050055002086.1.2.3"
bus2="82050055002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5286957" phases=3 bus1="82040065002086.1.2.3"
bus2="82040065002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5323940" phases=3 bus1="82062695002086.1.2.3"
bus2="82062695002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5508800" phases=1 bus1="81489165002086.2" bus2="81489165002086B.2"
r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001 switch=T

New "Line.CMT_5551605" phases=3 bus1="82049585002086.1.2.3"
bus2="82049585002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5552857" phases=3 bus1="81461105002086.1.2.3"
bus2="81461105002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5578546" phases=3 bus1="93435145002086.1.2.3"
bus2="93435145002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5583771" phases=3 bus1="91074325002086B.1.2.3"
bus2="91074325002086.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5583773" phases=3 bus1="91074225002086B.1.2.3"
bus2="91074225002086.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5583775" phases=3 bus1="91074275002086.1.2.3"
bus2="91074275002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5643544" phases=3 bus1="82054405002086.1.2.3"
bus2="82054405002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5643564" phases=3 bus1="82049415002086.1.2.3"
bus2="82049415002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5643565" phases=3 bus1="82050535002086.1.2.3"
bus2="82050535002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5644923" phases=3 bus1="82039505002086.1.2.3"
bus2="82039505002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5678387" phases=3 bus1="94074905002086.1.2.3"
bus2="94074905002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5688531" phases=3 bus1="94324195002086.1.2.3"
bus2="94324195002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5689023" phases=3 bus1="94336075002086.1.2.3"
bus2="94336075002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5689028" phases=3 bus1="82049875002086B.1.2.3"
bus2="82049875002086.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5700356" phases=3 bus1="82021055002086.1.2.3"
bus2="82021055002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5702013" phases=3 bus1="94562805002086.1.2.3"
bus2="94562805002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5702435" phases=3 bus1="94329945002086.1.2.3"
bus2="94329945002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5702629" phases=3 bus1="94511475002086.1.2.3"
bus2="94511475002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5710501" phases=3 bus1="94777705002086.1.2.3"
bus2="94777705002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5720545" phases=3 bus1="95200765002086.1.2.3"
bus2="95200765002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5722432" phases=3 bus1="95217345002086.1.2.3"
bus2="95217345002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5724674" phases=3 bus1="95404015002086.1.2.3"
bus2="95404015002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5744154" phases=3 bus1="96264645002086.1.2.3"
bus2="96264645002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_5750091" phases=3 bus1="82064415002086B.1.2.3"
bus2="82064415002086.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_DA0000250" phases=3 bus1="I888888516565002086B.1.2.3"
bus2="I888888516565002086.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_SA0002741" phases=3 bus1="I888888516575002086B.1.2.3"
bus2="I888888516575002086.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_SA0002742" phases=3 bus1="I888888516555002086B.1.2.3"
bus2="I888888516555002086.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T

New "Line.CMT_SA0002751" phases=3 bus1="I888888340825002086.1.2.3"
bus2="I888888340825002086B.1.2.3" r1=0.001 r0=0.001 x1=0 x0=0 c1=0 c0=0 length=0.001
switch=T