

TANAGA NATIONAL BERHAD (TNB)

500 kV TRANSMISSION STANDARDS

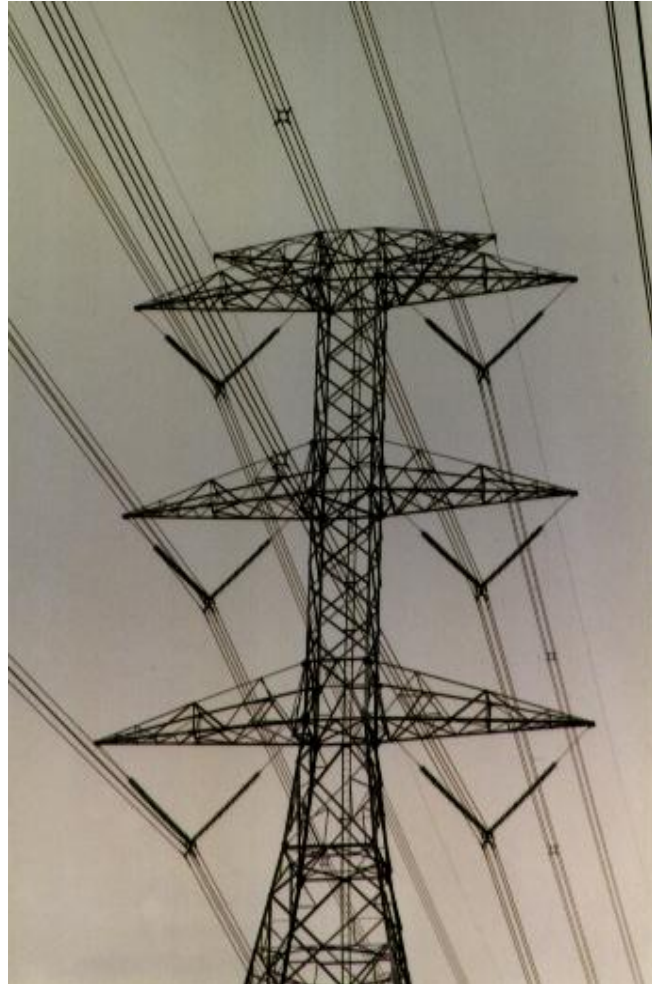
KUALA LUMPUR, MALAYSIA

COMPLETION DATE: MARCH 1999

PROJECT DESCRIPTION

ECI and RW Beck & Associates were retained to provide engineering services under the US Technical Development Agency (USTDA) for the energy project in Malaysia. The project involved development of complete 500 kV design standards for lattice tower construction of EHV transmission facilities in TNB's Service Area. As a consequence to significant growth, TNB was entering the EHV construction arena and desired to develop standards for use by in-house engineers and outside firms as a basis for design of future transmission facilities.

ECI's Project Manager, Gungor Yildirim, is a Turkish born transmission engineer having personal experience in the design of over 2,000 miles of EHV transmission lines on four continents, including extensive experience in Thailand and Singapore. ECI's project contribution was principally the technical development of standards, while RW Beck provided overall project management and support functions. Services provided included field inspection of recent transmission and substation construction, project management and training of TNB Staff on-site in Kuala Lumpur.



Final work product was a standards book consisting of approximately 150 pages, complete with all typical unit construction drawings associated with foundations, towers, hardware, construction drawings, associated with foundations, towers, hardware, conductor systems and other appurtenances.

◆ *Engineering With Distinction* ◆

Project Experience Resume



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KEY FACTS & HIGHLIGHTS

- ◆ **NEW 500 kV STANDARD DEVELOPMENT FOR EHV TRANSMISSION**
- ◆ **ON-SITE MEETINGS AND INTERFACE WITH TNB IN KUALA LAMPUR**
- ◆ **ON-SITE TRAINING AND EDUCATION CLASSES FOR TNB EMPLOYEES**
- ◆ **OPTIMIZED PLS-CADD DESIGN**
- ◆ **LATTICE TOWER CONSTRUCTION**