

North American Energy Standards Board

ANNUAL MEETING

September 25, 2002 HUNT VALLEY,MD

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Energy Market Developments

- Enron Collapse and Financial Weakness of Merchant Sector
- Dramatic Increase in Credit Risk Recognition
- Significant Reduction in Leverage and Liquidity of Market Participants
- More Demanding Financial Statement Reviews with Rating Changes
- Credit Standards Governing OTC Transactions are not uniform



Financial Sector Overview of Merchant Energy Sector-Solutions

- <u>Moody's</u> Energy Merchant Sector needs "the establishment of a clearing system that would provide Liquidity, Transparency and a more efficient transfer of Credit Risk" 1
- <u>S&P</u>- Energy Merchant Firms "must now mark-to-market derivatives associated with hedging strategies."²
 - 1. Reprinted by permission. Moody's May 2002 "Moody's View on Energy Merchants"
 - 2. Reprinted by permission. Standard and Poor's June 11 2002. "Updated Approach for Rating U.S. Energy Trading and Marketing Firms"



Financial Sector Overview of

Merchant Energy Sector-Solutions

- Fitch Ratings "A wave of Financial Stress and Credit Downgrades affecting wholesale energy marketers and power generators has triggered demands for security under trading contracts and long-term power and gas supply contracts" 3
 - 3. Reprinted by permission. FitchRatings August 12, 2002 Global Power North America Report



Financial Sector Overview of Merchant Energy Sector-Problematic

- Dramatically heightened sensitivity to Credit and Performance Risk and lack of Price Transparency
- Substantive Reduction in Counterparty Confidence
- Commerce becoming significantly more Capital Intensive
- Net Result: Chill bordering on Freeze in Commercial Activity



Bilateral Counterparty Credit Issues and Costs

- Counterparty Non-Performance
- Capital Reserves applied twice-against potential loss from Principal's Portion and Counterparty's Portion
- No Netting in Capital Reserves that support Offsetting Transactions from different trading partners
- Lost Trading Opportunities from Credit Restrictions
- Back Office Administration, including errors
- Systemic Risk



Role of the Exchange Clearing House

- Guarantee of Financial Performance
- Segregation of Customer Funds
- Trade and Position Processing
- Risk Management
- Business Continuity in the Event of a Default
- Portfolio margining reduces capital requirements



NYMEX Energy Clearing History

- We Have Experience and Expertise in Energy Marketplace Management
 - There is no generic "financial services" equivalent
- 130 Year History in Clearing Commodity trades
- World's Largest Physical Commodity Exchange
- 30+ Years Expertise in Exchange Energy Trading
- Customers receive the Protection of Even Handed Rule Based Operations



Exchange Performance Through Substantial Disruptions

- Drexel Burnham Lambert
- 1985 Oil Market Crash
- 1990-1 Persian Gulf Hostilities
- Metallgesellschaft
- August 1992 Hurricane Andrew
- February 1993 WTC Bombing
- Winter 2000-01 Natural Gas Market
- September 11, 2001...
 - Not Quite Business as Usual, But We Restarted Our Business against all odds
- Enron



2001 Exchange Traded and Cleared Futures & Options Notional Values

• Total Exchange \$2.9 trillion

Daily Average \$11.5 billion/day

• Crude Oil \$1.07 trillion

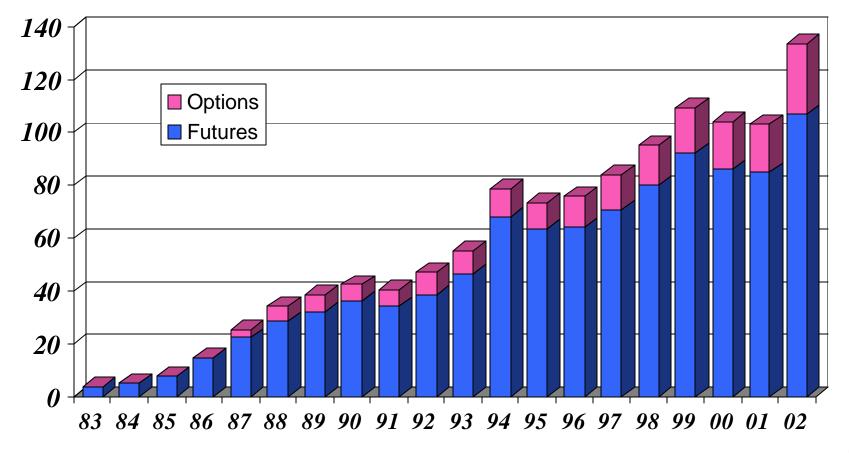
Natural Gas \$786 billion

• Gasoline \$323 billion

Heating Oil \$286 billion

Total Volume of Exchange Traded Contracts

(Million Contracts / Year)



Exchange OTC Clearing-Background

- Under Past Regulations Clearing of OTC Trades Were Prohibited
- The CFMA Separated the Regulation of Trading from the Regulation of Clearing
 - Previously allowed in the UK, but not the US
- NYMEX Started to Clear Energy Derivatives under this New Permission starting May 31, 2002
- Our Platform Is Live, and We Are Clearing Deals Each Day
 - We Have a Growing Book of Business and Open Interest



Exchange Regulatory Certainty

- We have obtained an Order from the CFTC Blessing our Approach to OTC Clearing
 - As with all other relevant issues, the order is published on the NYMEX web site
- The Exchange Has Overseen 12,650 Physical Deliveries in Power and Tens of Thousands Elsewhere
 - There is a known history to our firm approach toward compliance with obligations

Exchange OTC Clearing Is Providing Substantial Relief

- Elimination/mitigation of Counterparty Credit and Performance Risk
- Reduction of Operating Capital Demands
- Increases Confidence in Market Participants
- Increases Market Liquidity
- Increase Price Transparency
- Establish a Daily Forward Curve
- Better Bid/Ask Spreads



Additional Exchange OTC Clearing Benefits

- Net margin
 - Power Positions Become Less Expensive When Spread Against Gas (Spark Spread) than when cleared on their own
 - Substantial freeing-up of collateral with netting of off-setting positions against ALL counterparties
 - Net Margin Only Has Meaning If There Are Positions To Margin Against
- Mitigates limits on Trading Partners Increasing both the Number of Counterparties and Trading Level per Counterparty
- Offset physical power trades completely
- Offset of cash-settled trades
- Positions settled against current market values
- Benefit of US bankruptcy law as it applies to futures



Our Clearinghouse Is "Open Access"

- We Accept Trades that are executed through Trading Systems,
 Voice Brokers, or Directly between Principals
- We are offering **Direct Connectivity** to any trading platform that wants it. **WE ARE THE COUNTERPARTY TO ALL.**
- Customer and Voice Broker Access Can Occur through Secure Web Pages, or Automatically by Trade Extraction Technology
 - Confirmation Clearing Service Can Confirm Only or Confirm and Direct to the Clearinghouse
 - No Fee for Service if Trade Is Cleared List of products suitable for clearing is listed on the Exchange website-



Exchange OTC Clearing Mechanics Settlement for OTC Clearing

- Forward curve established each day for settlement purposes (2:30 p.m. ET mark)
 - The forward curve is based on real transactions from actual participants and brokers
 - NYMEX does not have a commercial bias or proprietary interest in settlements or settlement data
- Settlements represent the collective view of those most familiar with fair value at a given time.
- Data comes to NYMEX as forward curves sent by brokers/principals (via website/e-mail).



Exchange Technology Enhancements

- Auto-Clear
 - New Broker Interface Launching October 7, 2002
- Straight Thru Processing systems are in Development for OTC Trading Systems to Connect Directly to NYMEX's Back Office
- Through XML Technology, Interested Clients Can Have Their Back Office Trade Blotters Interface Directly with NYMEX's Back Office
 - Technology Can Extract Trades, Confirm the Match for any Current Transactions, and Direct Designated Trades to the Clearinghouse



Exchange OTC Clearing Mechanics Products - Natural Gas

- Henry Hub Swap
- Alberta Basis Swap
- Chicago Basis Swap
- Henry Hub Basis Swap
- Houston Ship Channel Basis Swap
- Northwest Rockies Basis Swap
- Panhandle Basis Swap
- San Juan Basis Swap
- SoCal Basis Swap
- Transco Zone 6 Basis Swap



Exchange OTC Clearing Mechanics Products – Physically Delivered Electricity

Delivery Locations

- Mid Columbia (west)
- Palo Verde (west)
- PJM West (east)

25 MW Monthly Peak Blocks

- 400 MWh daily contracts (25 MW x 16 peak hours/day).
- Submitted in multiples consistent with the number of peak days in month.



Exchange OTC Clearing Mechanics Products - Crude Oil

- Crude Oil:
 - Financial
 - WTI Calendar Swap
 - Dubai Crude Oil Calendar Swap
 - Physical
 - LLS Crude Oil
 - Mars Blend Crude Oil
 - West Texas Intermediate Midland
 - WTS Crude Midland



Exchange OTC Clearing Mechanics Products - Petroleum Spreads

- NY Harbor Heating Oil Crack Spread Calendar Swap
- NY Harbor Unleaded Gasoline Crack Spread Calendar Swap
- US Gulf Coast No.2 Crack Spread Calendar Swap
- US Gulf Coast Unleaded 87 Crack Spread Calendar Swap
- No.2 Up-Down Spread Calendar Swap
- Unleaded 87 Up-Down Spread Calendar Swap



Exchange OTC Clearing Mechanics Additional Cleared Products

Natgas Basis

- TCO
- Perm
- M3
- Demarc
- Michcon
- Sumas

• Electricity

- Physical Cinergy/Midwest ISO, Texas, CA NP and SP (consideration of Reg. Risk), Alberta
- Financial NY, NE, PJM



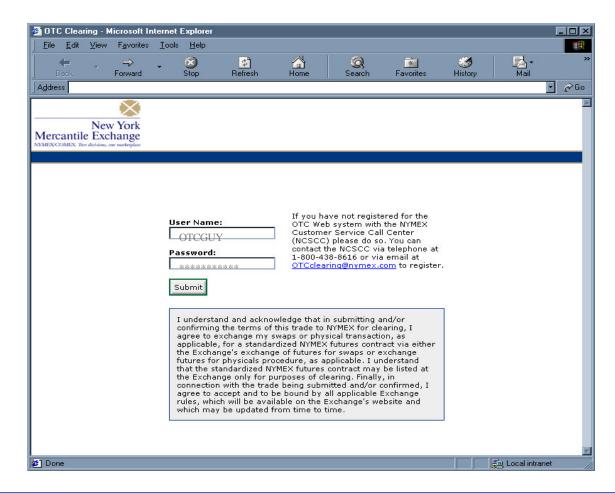
Exchange OTC Clearing Mechanics Additional Cleared Products

Petroleum

- Gulf Coast Residual Fuel Oil
- New York Harbor Residual Fuel Oil
- Gulf Coast Jet Fuel
- Singapore Jet Fuel
- Singapore Naphtha
- European Fuel Oil
- European Gasoline
- European Naphtha

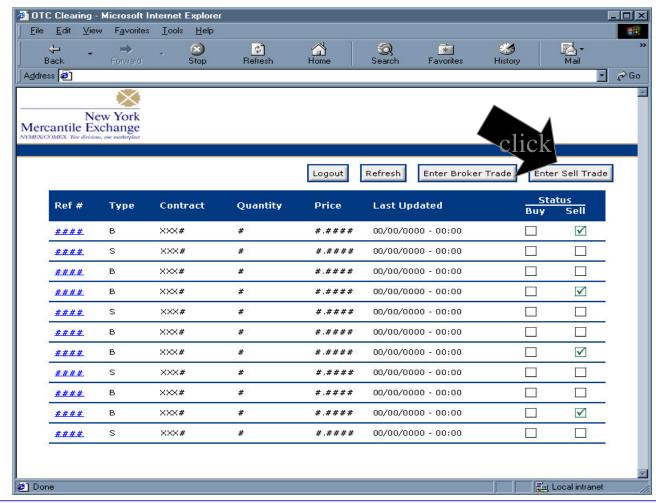


Exchange Web Entry Page



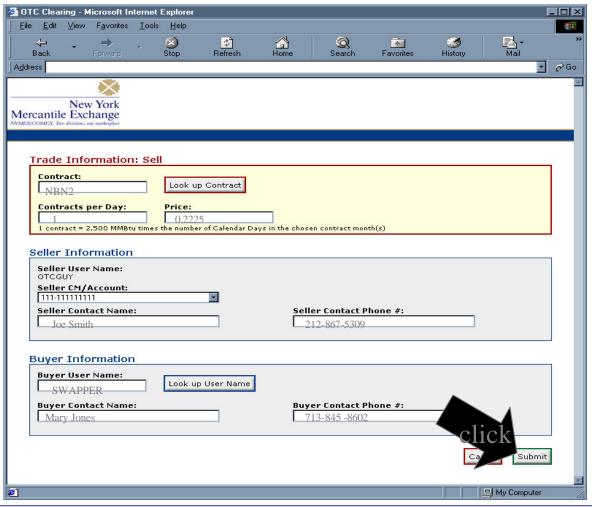


Seller: Enter New Trade



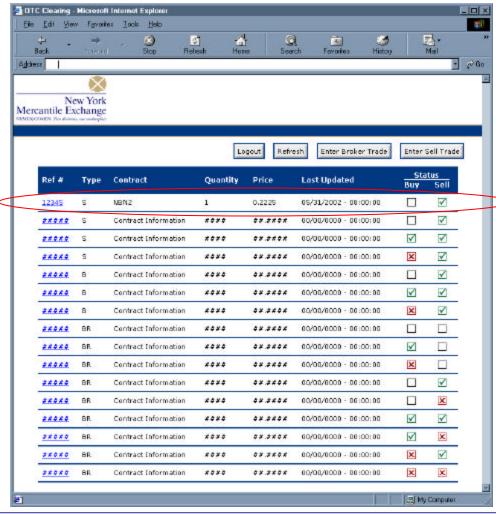


Seller: Enter Details





Seller: Updated Deal List





Exchange OTC Clearing Mechanics Operating Hours/Contacts

Operating Hours

- 7:30 a.m until 1:30 p.m. ET (Expanding to 2:30 on Oct 7)
- All trades submitted and match prior to deadline marked against that day's settles

Customer Service

- phone: 800-438-8616

• Marketing Dept

Joe Raia

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