HPC4 Manufacturing Industry Engagement Day

San Diego, CA
March 3, 2017

Mario Longhi
Chief Executive Officer
United States Steel Corporation
The Steelmaking Process: A Long and Winding Road

1 ton hot metal =
3K lbs pellets
+ 1K lbs fuel
+ 200-300 lbs fluxes
+ 3K-4K lbs air

Oxygen injected at Mach 2.1-2.2

- 8-10" thick slab rolled to 0.060-0.75" thick strip
- Length increased from 40' to up to 3000'
- Water blown through nozzles at over 2,000 psi to remove scale

2016 production
= 115 million tons of rock
= 50 million tons crude ore
= 15 million tons of ore pellets

2016 production
15 million net tons (shipments)
AHSS: Next generation steel for the next generation of vehicles

AHSS grain structures
The Changing Nature of Work in Manufacturing
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