Design Project 2

The mission of our second design process was to reduce Arcelor-Mittal’s waste stream by designing a product or way to reuse or recycle either pallets from incoming material delivery, empty drums or totes received from delivery of fluids, and waste refractory brick.

My group chose to use empty steel drums and recycle them to be portable camping stoves. This would allow the company to not only recycle their left over materials but also make additional money by selling the new product to another company or selling it directly to customers.

We went through a similar process as the first design project including making an AHP chart, concept generation tree (we used a tree this time rather than a table), and a concept section table. We went through these steps again because since we were designing another product rather than a general plan on how to reuse the items.

The following is the concept generation tree and concept selection chart we came up with: