

ADM provided a safety risk assessment and detailed mechanical and electrical design of guarding and interlocks for an existing piece of food processing equipment to meet Provincial Department of Labour Safety requirements.

Our client's goal was to improve the safety of operating conditions of an existing Mixer-Grinder machine in its food processing plant to meet Provincial Safety Guidelines.

ADM provided an initial safety assessment of the processing equipment to identify both the severity and probability of safety hazards for the equipment under differing operating conditions. This included both a review of the equipment and observations of production and maintenance staff during operating and maintenance activities.

Once complete, mechanical guarding and electrical controls and interlock designs were developed to reduce any identified safety hazards to acceptable levels per CSA Z432-04 Safeguarding of Machinery. Preliminary designs were reviewed by performing iterative safety risk assessment to verify that acceptable risk levels were achieved with the planned modifications. All equipment and guarding were modeled in 3D and drawings were prepared to provide bill of materials and guarding requirements to the client for procurement and installation as well as providing documentation for safety auditing of provincial authorities.

