

APPL. NO. 514286, 514287

ENGINEERING AND COMPLIANCE DIVISION

PROCESSED BY: R. Singh  
CHECKED BY:

APPLICATION PROCESSING AND CALCULATION

DATE: 12/06/11

## PERMIT TO CONSTRUCT/OPERATE EVALUATION

Applicant's Name

S.A. RECYCLING LLC

Company I.D.

153095

Mailing Address

3200 EAST FRONTERA ST., ANAHEIM, CA 92806

Equipment Address

3200 EAST FRONTERA ST., ANAHEIM, CA 92806

**EQUIPMENT DESCRIPTION:**Application No. 514286

SCRAP METAL SEPARATION AND RECOVERY SYSTEM CONSISTING OF:

**A. IN-FEED AND PRIMARY MATERIAL SIZING AND SEPARATION SUBSYSTEM:**

1. IN-FEED HOPPER.
2. BELT CONVEYOR, UNTF1-1, 3'-0" W. X 20'-0" L., 15 HP.
3. BELT CONVEYOR, UNTF1-2, 3'-0" W. X 20'-0" L., 20 HP.
4. BELT CONVEYOR, UNBC1, 3'-0" W. X 65'-0" L., 40 HP.
5. BELT CONVEYOR, UNBC2, 3'-0" W. X 15'-0" L., 20 HP.
6. TROMMEL SCREEN, FTR1, 9'-0" DIA. X 50'-0" L., (2) 20 HP.
7. TROMMEL SCREEN, MTR1, 9'-0" DIA. X 50'-0" L., (2) 15 HP.
8. BELT CONVEYOR, OBC1, 3'-0" W. X 76'-0" L., 15 HP.
9. BELT CONVEYOR, OBC2, 3'-0" W. X 42'-0" L., 15 HP.
10. BELT CONVEYOR, MBC1, 4'-0" W. X 21'-0" L., 10 HP.
11. BELT CONVEYOR, MBC2, 3'-0" W. X 53'-0" L., 15 HP.
12. BELT CONVEYOR, AFBC1, 3'-0" W. X 84'-0" L., 15 HP.
13. BELT CONVEYOR, AFBC2, 3'-0" W. X 45'-0" L., 15 HP.
14. BELT CONVEYOR, AFBC3, 3'-0" W. X 80'-0" L., 15 HP.
15. SHAKER, AFVC1, 6'-0" W. X 30'-0" L., 25 HP.
16. BELT CONVEYOR, FBC1, 15'-0" W. X 34'-0" L., 10 HP.
17. BELT CONVEYOR, FBC2, 15'-0" W. X 45'-0" L., 15 HP.
18. BELT CONVEYOR, XFBC1, 3'-0" W. X 72'-0" L., 15 HP.
19. BELT CONVEYOR, XFBC2, 3'-0" W. X 128'-0" L., 20 HP.

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**B. MIDSIZE PROCESSING SUBSYSTEM:**

20. SHAKER, MVC1-A, 6'-0" W. X 8'-0" L., (2) 1.88 HP.
21. SHAKER, MVC1-B, 6'-0" W. X 8'-0" L., (2) 1.88 HP.
22. BELT CONVEYOR, MBC3-A, 3'-0" W. X 60'-0" L., 20 HP.
23. SHAKER, MVC2-A, 8'-0" W. X 8'-0" L., (2) 1.88 HP.
24. MAGNETIC SEPARATOR, TMP-A, 1'-8" DIA. X 6'-8" L., 3 HP.
25. EDDY CURRENT SEPARATOR, MEC1-A, 7'-0" W. X 8'-0" L., 3 HP.
26. BELT CONVEYOR, MBC4, 5'-0" W. X 70'-0" L., 15 HP.
27. BELT CONVEYOR, FEBC1, 2'-0" W. X 4'-0" L., 5 HP.
28. BELT CONVEYOR, MBC5, 3'-0" W. X 40'-0" L., 15 HP.
29. BELT CONVEYOR, MBC3-B, 3'-0" W. X 40'-0" L., 15 HP.
30. BELT CONVEYOR, TBC6, 3'-0" W. X 25'-0" L., 5 HP
31. SHAKER, MVC2-B, 8'-0" W. X 8'-0" L., (2) 1.88 HP.
32. MAGNETIC SEPARATOR, TMP-B, 1'-8" DIA. X 6'-8" L., 3 HP.
33. EDDY CURRENT SEPARATOR, MEC1-B, 7'-0" W. X 8'-0" L., 3 HP.
34. EDDY CURRENT SEPARATOR, MEC2, 7'-6" W. X 9'-100" L., 5 HP.

**C. MIDSIZE SENSING SUBSYSTEM:**

35. SHAKER, MVC3-A, 8'-0" W. X 8'-0" L., (2) 3.2 HP.
36. SHAKER, MVC3-B, 8'-0" W. X 8'-0" L., (2) 3.2 HP.
37. RECOVERY SENSOR, MCS1-A, 8'-0" W. X 10'-0" L., 5 HP.
38. RECOVERY SENSOR, MCS1-B, 8'-0" W. X 10'-0" L., 5 HP.
39. RECOVERY SENSOR, MCS2-A, 8'-0" W. X 10'-0" L., 5 HP.
40. RECOVERY SENSOR, MCS2-B, 8'-0" W. X 10'-0" L., 5 HP.
41. BELT CONVEYOR, NFBC3, 2'-0" W. X 32'-0" L., 7.5 HP.
42. BELT CONVEYOR, NFBC8, 2'-0" W. X 17'-0" L., 7.5 HP.
43. BELT CONVEYOR, NFBC4, 2'-0" W. X 40'-0" L., 7.5 HP.
44. BELT CONVEYOR, NFBC5, 3'-0" W. X 39'-0" L., 15 HP.
45. BELT CONVEYOR, TBC4, REVERSING, 3'-0" W. X 32'-0" L., 15 HP.
46. BELT CONVEYOR, TBC9, 3'-0" W. X 26'-0" L., 15 HP.

**D. MIDSIZE NON-FERROUS RECOVERY SUBSYSTEM:**

47. SHAKER, NFVC1, 8'-0" W. X 10'-0" L., (2) 3.2 HP.
48. RECOVERY SENSOR, MRS1-A, 8'-0" W. X 10'-0" L., 5 HP.
49. BELT CONVEYOR, NFBC6, 2'-0" W. X 24'-0" L., 7.5 HP.
50. BELT CONVEYOR, NFBC7, 2'-0" W. X 12'-0" L., 7.5 HP.

**E. FINES PROCESSING SUBSYSTEM:**

51. TWIN BELT CONVEYOR, FBC6-A/FBC6-B, 2'-0" W. X 6'-0" L. EACH, 7.5 HP.
52. SHAKER, FVC2-A, 5'-0" W. X 8'-0" L., (2) 1.88 HP.
53. SHAKER, FVC2-B, 5'-0" W. X 8'-0" L., (2) 1.88 HP.
54. DYNAMIC SENSOR, FDS1-A, 5'-0" W. X 8'-0" L., 5 HP.

APPL. NO. 514286, 514287

ENGINEERING AND COMPLIANCE DIVISION

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- 55. DYNAMIC SENSOR, FDS1-B, 5'-0" W. X 8'-0" L., 5 HP.
- 56. EDDY CURRENT, FEC1-A, 5'-0" W. X 8'-0" L., 5 HP.
- 57. EDDY CURRENT, FEC1-B, 5'-0" W. X 8'-0" L., 5 HP.
- 58. SPLITTER ROLLER, F-A, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 59. SPLITTER ROLLER, F-B, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 60. BELT CONVEYOR, FBC3, 2'-0" W. X 38'-0" L., 10 HP.
- 61. BELT CONVEYOR, TBC26, 2'-0" W. X 20'-0" L., 10 HP.
- 62. BELT CONVEYOR, FBC4, 3'-0" W. X 70'-0" L., 15 HP.
- 63. BELT CONVEYOR, FBC-5, 5'-0" W. X 8'-0" L., 10 HP.
- 64. SHAKER, FVC4-C, 8'-0" W. X 8'-0" L., (2) 3.9 HP.
- 65. EDDY CURRENT, FEC2, 5'-0" W. X 8'-0" L., 7.5 HP.
- 66. BELT CONVEYOR, TBC1, 3'-0" W. X 32'-0" L., 15 HP.
- 67. BELT CONVEYOR, TBC2, 3'-0" W. X 35'-0" L., 15 HP.
- 68. BELT CONVEYOR, TBC7, 3'-0" W. X 40'-0" L., 7.5 HP.

**F. STEEL RECOVERY SUBSYSTEM (VANOVER SYSTEM):**

- 69. BELT CONVEYOR, VSBC1, 3'-0" W. X 56'-0" L., 15 HP.
- 70. BELT CONVEYOR, VSBC2, 3'-0" W. X 15'-0" L., 15 HP.
- 71. TROMMEL TUBE, VSTR1, 4'-0" W. X 18'-0" L., 10 HP.
- 72. CYCLONE SEPARATOR, VSBF1, WITH A 150 HP BLOWER.
- 73. BELT CONVEYOR, VSBC3, 3'-0" W. X 14'-0" L., 7.5 HP.
- 74. BELT CONVEYOR, VSBC6, 2'-0" W. X 94'-0" L., 15 HP.
- 75. BELT CONVEYOR, VSBC5, 2'-0" W. X 14'-0" L., 7.5 HP.
- 76. BELT CONVEYOR, VSBC7, 2'-0" W. X 14'-0" L., 10 HP.
- 77. BLOWER DUST COLLECTOR TBF9, 60 HP.
- 78. ROTARY AIR LOCK VSRV1, 2 HP.

**G. EXTRA FINES PROCESSING SUBSYSTEM:**

- 79. SCREW CONVEYOR, XFBC-6, 1'-6" DIA. X 14'-8" L., 10 HP.
- 80. SHAKER, XFVC2A, 5'-0" W. X 8'-0" L., (2) 3.2 HP.
- 81. SHAKER, XFVC2B, 5'-0" W. X 8'-0" L., (2) 3.2 HP.
- 82. DYNAMIC SENSOR, XFDS1-A, 5'-0" W. X 8'-0" L., 5 HP.
- 83. DYNAMIC SENSOR, XFDS1-B, 5'-0" W. X 8'-0" L., 5 HP.
- 84. EDDY CURRENT, XFEC1, 5'-0" W. X 8'-0" L., 5 HP.
- 85. EDDY CURRENT, XFEC2, 5'-0" W. X 8'-0" L., 5 HP.
- 86. SPLITTER ROLLER, XF-A, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 87. SPLITTER ROLLER, XF-B, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 88. BELT CONVEYOR, XFBC3, 2'-0" W. X 16'-5" L., 10 HP.
- 89. BELT CONVEYOR, XFBC5, 2'-0" W. X 6'-4" L., 10 HP.
- 90. SHAKER, XFVC5, 5'-0" W. X 8'-0" L., (2) 3.6 HP.
- 91. EDDY CURRENT, XFEC2, 5'-0" W. X 8'-0" L., (2) 5 HP.
- 92. BELT CONVEYOR, TBC11, 2'-0" W. X 34'-0" L., 10 HP.
- 93. BELT CONVEYOR, XFBC4, 2'-0" W. X 37'-0" L., 10 HP.

APPL. NO. 514286, 514287

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**H. WIRE RECOVERY SUBSYSTEM:**

- 94. BELT CONVEYOR, TBC13, 3'-0" W. X 40'-0" L., 10 HP.
- 95. BELT CONVEYOR, TBC14, 3'-0" W. X 34'-0" L., 10 HP.
- 96. TWIN BELT CONVEYOR, TBC15 A&B, 2'-0" W. X 6'-0" L. EACH, 5 HP.
- 97. SHAKER, TVC1-A, 8'-0" W. X 9'-0" L., (2) 4 HP.
- 98. SHAKER, TVC1-B, 8'-0" W. X 9'-0" L., (2) 4 HP.
- 99. BELT CONVEYOR, TBC16-A, 3'-10" W. X 255'-0" L., 5 HP.
- 100. BELT CONVEYOR, TBC16-B, 3'-10" W. X 255'-0" L., 5 HP.
- 101. BELT CONVEYOR, WBC1-A, 6'-0" W. X 11'-0" L., 10 HP.
- 102. BELT CONVEYOR, WBC1-B, 6'-0" W. X 11'-0" L., 10 HP.
- 103. ROLL BACK CONVEYOR, WBC2-A, 6'-0" W. X 15'-0" L., 10 HP.
- 104. ROLL BACK CONVEYOR, WBC2-B, 6'-0" W. X 15'-0" L., 10 HP.
- 105. BELT CONVEYOR, TBC17, 3'-0" W. X 31'-0" L., 10 HP.
- 106. BELT CONVEYOR, TBC19, 2'-0" W. X 163'-0" L., 15 HP.
- 107. BELT CONVEYOR, TBC20, 3'-0" W. X 31'-0" L., 10 HP.
- 108. BELT CONVEYOR, WBC3, 5'-0" W. X 37'-0" L., 11 HP.
- 109. BELT CONVEYOR, WBC7, 5'-0" W. X 37'-0" L., 12 HP.
- 110. CYCLONE SEPARATOR, TBF1-A, 125 HP, WITH A Z-BOX SEPARATOR.
- 111. CYCLONE SEPARATOR, TBF1-B, 125 HP, WITH A Z-BOX SEPARATOR.
- 112. ROTARY AIR LOCK, TRVI-A, 2'-3" DIA. X 1'-6" L., 2 HP.
- 113. ROTARY AIR LOCK, TRVI-B, 2'-3" DIA. X 1'-6" L., 2 HP.
- 114. BELT CONVEYOR, TBC25, 3'-0" W. X 34'-0" L., 15 HP.
- 115. SHAKER, WVC2-A, 8'-0" W. X 9'-0" L., (2) 4 HP.
- 116. SHAKER, WVC2-B, 8'-0" W. X 9'-0" L., (2) 4 HP.
- 117. RECOVERY SENSOR, WCS1-A, 6'-3" W. X 10'-0" L., 5 HP.
- 118. RECOVERY SENSOR, WCS2-A, 6'-3" W. X 10'-0" L., 5 HP.
- 119. RECOVERY SENSOR, WCS3-A, 6'-3" W. X 10'-0" L., 5 HP.
- 120. RECOVERY SENSOR, WCS4-A, 6'-3" W. X 10'-0" L., 5 HP.
- 121. RECOVERY SENSOR, WCS1-B, 6'-3" W. X 10'-0" L., 5 HP.
- 122. RECOVERY SENSOR, WCS2-B, 6'-3" W. X 10'-0" L., 5 HP.
- 123. RECOVERY SENSOR, WCS3-B, 6'-3" W. X 10'-0" L., 5 HP.
- 124. RECOVERY SENSOR, WCS4-B, 6'-3" W. X 8'-0" L., 5 HP.
- 125. BELT CONVEYOR, WBC16-A, 3'-0" W. X 2'-7" L., 15 HP.
- 126. BELT CONVEYOR, WBC16-B, 3'-0" W. X 2'-7" L., 15 HP.
- 127. BELT CONVEYOR, TBC22, 3'-0" W. X 26'-6" L., 10 HP.
- 128. BELT CONVEYOR, TBC23, 3'-0" W. X 57'-4" L., 15 HP.
- 129. PICKING BELT CONVEYOR, WBC17, 3'-0" W. X 66'-0" L., 15 HP.
- 130. BELT CONVEYOR, TBC21, 2'-0" W. X 17'-0" L., 10 HP.
- 131. BELT CONVEYOR, TBC27, 3'-0" W. X 19'-0" L., 10 HP.
- 132. BELT CONVEYOR, TBC28, 3'-0" W. X 42'-0" L., 10 HP.
- 133. BELT CONVEYOR, TBC42, 3'-0" W. X 21'-0" L., 15 HP.
- 134. BELT CONVEYOR, TBC29, 3'-0" W. X 106'-0" L., 15 HP.
- 135. SHAKER, WVC1-C, 6'-6" W. X 8'-0" L., (2) 4 HP.
- 136. CYCLONE SEPARATOR, TBF1-C, 100 HP, WITH A Z-BOX SEPARATOR.
- 137. ROTARY AIR LOCK, TRVI-C, 2'-3" DIA. X 1'-6" L., 2 HP.

APPL. NO. 514286, 514287

ENGINEERING AND COMPLIANCE DIVISION

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138. BELT CONVEYOR, TBC30, 2'-0" W. X 53'-0" L., 10 HP.  
 139. SHAKER, WVC2-C, 6'-6" W. X 8'-0" L., (2) 4 HP.  
 140. RECOVERY SENSOR, WCS1-C, 6'-3" W. X 10'-0" L., 5 HP.  
 141. RECOVERY SENSOR, WCS2-C, 6'-3" W. X 10'-0" L., 5 HP.  
 142. RECOVERY SENSOR, WCS3-C, 6'-3" W. X 10'-0" L., 5 HP.  
 143. RECOVERY SENSOR, WCS4-C, 6'-3" W. X 10'-0" L., 5 HP.  
 144. BELT CONVEYOR, WBC16-C, 3'-0" W. X 27'-6" L., 15 HP.  
 145. PICKING BELT CONVEYOR, WBC18, 3'-0" W. X 4'-6" L., 10 HP  
 146. BELT CONVEYOR, WBC19, 2'-0" W. X 18'-0" L., 10 HP.  
 147. ROTARY AIR LOCK, TRV6, 2'-0" DIA. X 7'-0" L., 1 HP.  
 148. ROTARY AIR LOCK, TRV7, 2'-0" DIA. X 7'-0" L., 1 HP.  
 149. BLOWER CLASSIFIER, TBF8, 50 HP.  
 150. CLASSIFIER, TRV8, 1 HP.  
 151. CYCLONE, TRV9, 1 HP.  
 152. BELT CONVEYOR, WBC20, 2'-0" W. X 8'-2" L., 1 HP.  
 153. BELT CONVEYOR, TBC31, 3'-0" W. X 42'-0" L., 10 HP.  
 154. BELT CONVEYOR, TBC32, 2'-0" W. X 14'-0" L., 10 HP.  
 155. BELT CONVEYOR, TBC33, 2'-0" W. X 34'-2" L., 10 HP.  
 156. SHAKER, TVC2, 8'-0" W. X 8'-0" L., (2) 4 HP TOTAL.  
 157. ROTARY AIR LOCK, TRV2-D, 2'-0" DIA. X 7'-0" L., 1 HP.  
 158. BLOWER ASPIRATOR, TBF1-D, WITH A 50 HP BLOWER.  
 159. ROTARY AIR LOCK, TRV1-D, 4'-0" DIA. X 2'-10" L., 1 HP.  
 160. BELT CONVEYOR, TBC34, 2'-0" W. X 10'-2" L., 7.5 HP.  
 161. BELT CONVEYOR, TBC35, 2'-0" W. X 24'-0" L., 7.5 HP.  
 162. BELT CONVEYOR, TBC36, 3'-0" W. X 42'-2" L., 10 HP.  
 163. RECOVERY SENSOR, WCS1-D, 6'-3" W. X 10'-0" L., 5 HP.  
 164. RECOVERY SENSOR, WCS2-D, 6'-3" W. X 10'-0" L., 5 HP.  
 165. RECOVERY SENSOR, WCS3-D, 6'-3" W. X 10'-0" L., 5 HP.  
 166. RECOVERY SENSOR, WCS4-D, 6'-3" W. X 10'-0" L., 5 HP.  
 167. BELT CONVEYOR, WBC16-D, 4'-0" W. X 40'-0" L., 10 HP.  
 168. CHEM SCREW, TSF1, 4'-0" DIA. X 16'-5" L., 50 HP.  
 169. BELT CONVEYOR, TBC3, 3'-0" W. X 48'-0" L., 20 HP.  
 170. CEMENT DISCHARGE SCREW CONVEYOR, CSF1-A, 7'-0" DIA. X 17'-0" L. X 5 HP.  
 171. CEMENT DISCHARGE SCREW CONVEYOR, CSF1-B, 7'-0" DIA. X 17'-0" L. X 5 HP.  
 172. TRIPLE AUGER, TSF3, 4'-0" W. X 16'-0" L., 5 HP.  
 173. BELT CONVEYOR, TBC51, 4'-0" W. X 21'-0" L., 10 HP.  
 174. BELT CONVEYOR, TBC10, 2'-0" W. X 10'-2" L., 25 HP.

## I. COPPER RECOVERY SUBSYSTEM:

175. BELT CONVEYOR, TBC37, 2' W X 66.2' L, 10 HP  
 176. BELT CONVEYOR, TBC38, 2' W X 20.2' L, 10 HP  
 177. SHAKER, TVC3, 5'-0" W. X 8'-0" L , 2 @(2) 3.9 HP  
 178. ROTARY LOCK, CURV1-A CUBC1. 6' X 4", 1 HP  
 179. ROTARY LOCK, CURV1-B TRV7-E, 6' X 4", 1 HP  
 180. P-10 UNIT, CUVC1-A CUBC2, 6' W X 8' L, 2 HP

APPL. NO. 514286, 514287

ENGINEERING AND COMPLIANCE DIVISION

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181. P-10 UNIT,CUVC1-B TVC4, 6' W X 8' L, 2 HP
182. SWEECO,CUSW1-A CUBC3, 40", 2.5 HP
183. SWEECO, CUSW1-B TSC1, 40", 2.5 HP
184. BLOWER, TBF2-A TBF2-E, 923 RBO, 75 HP
185. BLOWER, TBF2-B TBF3-E, 923 RBO, 75 HP
186. BLOWER DUST COLLECTOR TBF5 100 HP
187. ROTARY LOCK, TRV3-A, 8"L. X 4" W., 1 HP
188. ROTARY LOCK, TRV3-B TRV6-E, 8"L. X 4" W., 1 HP
189. BELT CONVEYOR,CUBC1-A CUVC3, 1' W X 6' L, 1 HP
190. BELT CONVEYOR,CUBC1-B CUBC4, 14'-0" W. X 12" L , 0.5 HP
191. ROTARY LOCK, CURV2-A TRV4-E, 40"x4", 1 HP
192. ROTARY LOCK,CURV2-B CUBC6, 8"L. X 4" W., 1 HP
193. BELT CONVEYOR, TBC49 TRV5-E, 4" w x 21' L, 5 HP
194. BELT CONVEYOR, TBC41, 4" w x 46' L, 10 HP
195. BELT CONVEYOR,CUBC2-A, 14'-0" W. X 12" L , 1 HP
196. BELT CONVEYOR,CUBC2-B CURV1, 14'-0" W. X 12" L , .5 HP
197. SWEECO, CUSW2-A, 40", 2.5 HP
198. SWEECO, CUSW2-B TSC2, 40", 2.5 HP
199. P-6 UNIT,CUVC2-A TRV3-E, 42"x72", 2 HP
200. P-6 UNIT, CUVC2-B TBC46, 42x72, 2 HP
201. BLOWER, TBF3-A TCR1, 915 RB8, 30 HP
202. BLOWER, TBF3-B TBF5, 923 RBO, 75 HP
203. ROTARY LOCK, TRV4-A UTLP1, 8"L. X 4" W., 1 HP
204. ROTARY LOCK, TRV4-B TRV8, 8"L. X 4" W., 1 HP
205. BLOWER DUST COLLECTOR TBF6 75 HP
206. BELT CONVEYOR, CUBC3-B CUVC4. 10' X 24' L, 1 HP
207. BELT CONVEYOR, CUBC4-A 10' X 24' L, 1 HP
208. BELT CONVEYOR, CUBC4-B 10' X 24' L, 1 HP
209. BELT CONVEYOR, CUBC5-B 10' X 24' L, 5 HP
210. ROTARY LOCK, CURV3-A, 20"x4", 1 HP
211. ROTARY LOCK, CURV3-B, 20"x4", 1 HP
212. P-4 UNIT,CUVC3-A, 36"x72", 1 HP
213. P-4 UNIT,CUVC3-B, 36"x72", 1 HP
214. BLOWER, TBF4-A, 915 RB8, 50 HP
215. BLOWER, TBF4-B, 915 RB8, 50 HP
216. ROTARY LOCK, TRV5-A ,8"L. X 4" W., 1 HP
217. OTARY LOCK, TRV5-B ,8"L. X 4" W., 1 HP
218. BLOWER DUST COLLECTOR TBF7 50 HP
219. BELT CONVEYOR, TBC50, 2' W X 20.2' L, 1 HP
220. BELT CONVEYOR, TBC40, 2' W X 20.2' L, 10 HP.
221. TRIPLE AUGER, TSF2, 4" w x 16' L, 10 HP.
222. BELT CONVEYOR, TBC44, 2' W X 20.2' L, 15 HP.
223. BELT CONVEYOR, TBC45, 2' W X 50.2' L, 20 HP.
224. BELT CONVEYOR, TBC46, 2' W X 100.2' L, 20 HP. 5

APPL. NO. 514286, 514287

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- J. COMPRESSOR SUBSYSTEM:
- 225. COMPRESSOR #1, UTAC1. 217HP
  - 226. COMPRESSOR #3, UTAC3. 272HP
  - 227. COMPRESSOR #4, UTAC4. 272HP
  - 228. BLOWER UTCT1-F1 10 HP
  - 229. WATER PUMP1, UTCT1-P1, 25HP
  - 230. WATER PUMP2, UTCT1-P2, 25HP
  - 231. WATER PUMP3, UTCT1-P3, 5HP

### **BACKGROUND:**

This is a Title V facility, engaged in scrap metal shredding including scrap automobiles, scrap appliances, metal pipes, metal drums, and metal machinery. These applications were submitted on 09/01/10 for modification of the Scrap Metal Separation and Recovery System (MRP) operating under PO # G6281 (A/N 482318). In this modification, the applicant has added a Copper Processing Subsystem and some conveyors, removed some conveyors, and changed designation of some components in other subsystems. Since the MRP in-feed material is sufficiently wet (coming from the Shredder), no significant increase in emissions is expected due to these modifications.

A check on the compliance data did not show any open violations or complaints. The facility is in an industrial area and there are no schools within 1000 feet of this facility.

### **PROCESS DESCRIPTION:**

The incoming scrap is shredded and the ferrous material is magnetically separated. The non-ferrous material is further processed through the Material Recovery Plant (MRP) to recover other metals. The process is divided into several subsystems that separate different materials from the in-feed to the MRP. After all the useful materials are retrieved, the remaining material, known as 'fluff', is fed to a mixing screw conveyor along with cement from the silos for disposal. Water spray is used during shredding to control PM emissions. The material coming from the shredder to the MRP is wet; therefore additional spraying at all transfer points is not necessary.

Three dust collectors are being installed (A/Ns 524495, 524496, 524497) to vent three cyclones in the copper recovery subsystem in the MRP and one dust collector is being installed (A/N 522016) to vent the steel recovery subsystem in the MRP. The purpose of installing these dust collectors is to reduce particulate emissions, resulting in improved indoor air quality for worker comfort.

### **OPERATING SCHEDULE:**

Maximum: 24 hrs per day, 7 days per week, 52 weeks per year  
Average: 16 hrs per day, 7 days per week, 52 weeks per year



APPL. NO. 514286, 514287

ENGINEERING AND COMPLIANCE DIVISION

PROCESSED BY: R. Singh  
CHECKED BY:

APPLICATION PROCESSING AND CALCULATION

DATE: 12/06/11

- RULE 401 Visible emissions are not expected with proper maintenance and operation of this equipment. Compliance is expected.
- RULE 402 Operation of this equipment is not expected to create a nuisance. Compliance is expected.
- RULE 405 The expected PM emission rate is 0.44 lb / hr., which is well below the allowable PM emission rate of 17.5 lbs./ hr. (for process weight of 120,000 lbs per hour) in Table 405(a) of this rule. Compliance is expected.
- REG. XIII New Source Review:
- Subparagraph 1303(a)  
PM10 emissions are controlled by water spray. BACT is satisfied.
- Subparagraph 1303(b)  
There is no significant increase in PM10 emissions due to this modification. Modeling and offsets are not required.
- RULE 1401 Review of Toxic Air Contaminants  
There is no significant increase in PM10 emissions due to this modification. No increase in health risk is expected. Compliance is expected.
- REG XXX This is a De Minimis Significant Permit Revision to the Title V permit. EPA 45-day review period is required.

**CONCLUSIONS/RECOMMENDATIONS:**

The equipment is expected to comply with all applicable AQMD rules and regulations. Issue PO subject to permit conditions listed below:

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. TOTAL QUANTITY OF MATERIAL PROCESSED BY THIS EQUIPMENT SHALL NOT EXCEED 38,571 LONG TONS IN ANY ONE CALENDAR MONTH.  
[RULE 1303 (b)(2) - OFFSETS]

APPL. NO. 514286, 514287

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4. SUFFICIENT WATER SHALL BE SPRAYED, AS NEEDED, AT TRANSFER POINTS AND SCREENS TO PREVENT EXCESSIVE DUST EMISSIONS.  
[RULE 1303 (a)(1) – BACT]
5. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH THE ABOVE PERMIT CONDITIONS. THE RECORDS SHALL BE KEPT FOR A MINIMUM OF THE LAST TWO YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 3004 (a)(4)]

**Periodic Monitoring:**

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
    - A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS FOR WHICH COMPLIANCE WAS ACHIEVED IN THE PAST; OR
    - B. TAKE CORRECTIVE ACTION(S) TO ELIMINATE THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE EMISSIONS AS A POTENTIAL DEVIATION IN COMPLIANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
    - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL “VISIBLE EMISSION EVALUATION”, WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.
- [RULE 3004 (a) (4)]

**APPL. NO. 514286, 514287****ENGINEERING AND COMPLIANCE DIVISION****PROCESSED BY: R. Singh  
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7. THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:
- A. STACK OR EMISSION POINT IDENTIFICATION;
  - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
  - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
  - D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.  
[RULE 3004 (a) (4)]

**Emissions and Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS