



Oconee County, South Carolina
Capital Project Advisory Committee
Project Criteria Questionnaire

Rock Quarry: Rock Crushing Plant Upgrade

The purpose of this document is to assist the Capital Project Advisory Committee (CPAC) in understanding and scoring proposed capital projects. The questions are based on issues evaluated by CPAC, and attempt to establish an overview of the scope of the project.

Instructions: Answer each of the major questions (*in bold italics*) listed in the 7 criteria categories below. All major questions must be answered with either 'yes', 'no', or 'n/a' if not applicable. For any major question answered 'yes', provide the supporting information requested in a *complete and easy to understand* narrative that addresses each of the related detailed questions. Use as much space as is needed. Copies of any *available* documentation (engineering estimates, quotes, plan summaries, etc.) should be submitted as necessary.

Criteria 1: Public Health, Safety and Mandates

1. *Does the proposed project directly address a health and/or safety need?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

a. What is the need most directly addressed by the proposed project, and how will it address the issue?

- **Hoist**
- **Polydeck Screen**
 - **Employee safety on both projects will be improved**

b. Are there other possible alternatives to proposed project?

- **Hoist**
 - **Yes - pedestal hammer instead of chain hoist**
- **Polydeck Screen Conversion**
 - **To proceed with our current application**

c. Have other solutions been proposed/attempted?

- **Hoist**
 - **Yes - physical removal of lodged boulders from jaw crusher**
- **Polydeck Screen Conversion**
 - **No**

d. What secondary benefits to health and safety will result from the proposed project?

- **Hoist**
 - **No repetitive motion**
- **Polydeck Screen Conversion**
 - **Reduction of noise levels**

2. Does the proposed project address a federal/state mandate?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What agency is mandating the project (note specific section of law/regulation)?
- b. Has the County Attorney reviewed the issue?
- c. Are there other possible alternatives to the proposed project?
- d. Is there a deadline to meet the mandate, and is this a recurring requirement? If so, what is the anticipated length of time the proposed project will remain in compliance?

Criteria 2: Goals Established in Adopted Plans

3. *Does the proposed project help to implement goals established in the Comprehensive Plan?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

a. What goal/objective/strategy(s) will be addressed by the proposed project?

- Holist
- Polydeck Screen
 - Continued progress toward safety goals for both projects

b. What timeline was adopted for implementation?

- As soon as possible

c. Who was the agency listed as the responsible party in the plan?

- All upgrades will be performed by Quarry employees

4. *A. Is the proposed project consistent with adopted strategic plans?*

Yes No N/A

If the answer is No or N/A, move on to the next question.

If the answer is Yes, provide the following information in the space indicated below.

Be sure to address each question:

a. What strategic plans reference the proposed project (note any timelines, responsible parties, etc.)?

b. What agency sponsored the strategic plan?

c. How was the plan developed?

d. Has the plan been adopted/endorsed by County Council?

B. Does the proposed project implement the recommendations of a previous study?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

a. What agency sponsored the study (note the source of any funding)?

b. What was the purpose of the study, and when was it performed?

c. What factors considered in the study have changed since the work was done?

d. Have the results of the study been presented to County Council?

5. *Has the proposed project been consistently included in previous Capital Improvement Plans?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. When was the project first proposed?
- b. What was the original proposed date of construction/acquisition/implementation?
- c. Has any other agency also included the proposed project (or significant portion of) on their capital improvement plan?

Criteria 3: Economic Development

6. *Will the proposed project result in the creation of (or retention of) jobs?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. How many jobs will be created?
- b. How many jobs will be retained that would otherwise be lost without the proposed project?
- c. What types of jobs?
- d. What is that anticipated pay range of the jobs?
- e. Are there other known job-related benefits associated with the proposed project?

7. *Will the proposed project facilitate development that directly enhances revenues through taxes or fees?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What sources of increased revenues (taxes, fees, etc.) are anticipated to stem from the proposed project?
- b. What is the anticipated annual impact on each revenue source?
- c. Are there other possible enhancements to revenues that may be associated with the proposed project?

8. *Will the proposed project enhance the County's image, thereby attracting potential investors?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. How will the proposed project be viewed by the 'average' citizen?
- b. How 'visible' will the proposed project (or its benefits) be?
- c. What type(s) of, and how much, private investment is the proposed project anticipated to attract?
- d. What level and type of promoting will be necessary to achieve the proposed project's maximum potential in attracting investment?

9. Will the proposed project help prevent the loss of jobs and/or revenue (other than any discussed above in this section) from Oconee County?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What types of jobs/revenue are subject to loss without the proposed project?
- b. Has a project similar to the one proposed been completed in the county/jurisdiction to which the jobs/revenue will potentially be lost? If so, describe.
- c. Are there known alternatives to the proposed project that may effectively save the jobs/revenue?

Criteria 4: Capital Fiscal Impact

10. Will proposed project have a positive impact on the General Fund budget?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. How will the proposed project enhance revenues?
 - Polydock Screen
 - Reduce maintenance costs
 - Increased production
- b. What is the anticipated annual impact to the General Fund budget?
 - A potential of \$154,000 in a full budget year
- c. What is the anticipated cost of delaying construction/acquisition of the proposed project?
 - Negligible at this point in current budget year

11. Will the proposed project facilitate acquisition of grants and/or other outside funding?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What types of grants and/or other outside funding sources are expected to be made available by construction/acquisition of the proposed project?
- b. Have other jurisdictions successfully leveraged such funds with similar projects? If so, provide a brief overview.

12. Will the project be economically sustainable?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What resources (staffing, maintenance, upgrades, etc.) are anticipated to be required to operate and maintain the proposed project?
- b. How will the proposed project offset the cost of operation and maintenance?
- c. Are there additional potential sources of economic benefit available?

13. Is the proposed project supported by available or previously designated funding?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What funding sources are designated for the proposed project?
 - Hoist
 - Polydeck Screen
 - Currently funded budget
- b. If the construction/acquisition of the proposed project is to be phased or otherwise completed over a period of 2 or more fiscal years, are the designated funds available for each fiscal year?
 - N/A

14. Will construction/acquisition of the proposed project now result in significant savings or economies of scale?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What are the anticipated costs to delaying the project?
- b. Are there factors other than inflation that may result in additional costs?

Criteria 5: Operation and Maintenance Fiscal Impact

15. *Will the proposed project have a positive impact on operation and maintenance budgets?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What is the anticipated annual cost to operate and maintain the proposed project?
 - Hoist
 - Unknown – electricity usage
 - Polydeck Screen
 - Approximately \$10,000 – wear parts
- b. What existing asset is to be replaced or modified by the proposed capital project? Include annual cost to operate and maintain, and note expected savings.
 - Hoist
 - Replacing manual hoist
 - Potentially saving a workman's compensation/lost time accident
 - Polydeck Screen
 - Replacing wire screens
 - Approximately \$14,000

16. *Will the proposed project improve the efficiency of existing operations?*

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What existing services will be impacted by the proposed project?
 - Hoist
 - Removal of oversize rock from jaw crusher
 - Polydeck Screen
 - Longer wear life
 - Less down time
 - Improved safety
- b. In what way will the proposed project improve existing services?
 - Hoist
 - Removal of oversize rock from jaw crusher
 - Polydeck Screen
 - Longer wear life
 - Less down time
 - Improved safety

- c. Are there options to the proposed project to gain similar improvements in efficiency?
 - Hoist
 - Pedestal Hammer – Approximately \$100,000
 - Polydeck Screen
 - No other option

17. Is the proposed project considered 'low-maintenance'?

Yes No N/A

If the answer is No or N/A, move on to the next question; If the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. If the proposed project is the construction/acquisition of a replacement or improvement of an existing asset, how will it compare to current requirements?
 - Hoist
 - Replacing manual hoist
 - Potentially saving a workmen's compensation/lost time accident
 - Polydeck Screen
 - Replacing wire screens
 - Approximately \$14,000
- b. What are the key features related to ensuring the proposed project will require little maintenance?
 - Hoist
 - Heavy duty casing
 - Polydeck Screen
 - Smaller replacement panels
- c. Are there warranties or guarantees associated with the proposed project?
 - Hoist
 - Polydeck Screen
 - No

18. Will the proposed project require additional resources (staff, funding, etc.) to support its operation?

Yes No N/A

If the answer is No or N/A, move on to the next question; If the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What additional resources will be required?
- b. Can some resources be 'shared' with other assets?
- c. Are there options available that will limit need for additional resources?

19. Are there any existing assets which will be rendered obsolete/surplus or otherwise unneeded by the proposed project?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What assets will be rendered obsolete/surplus or otherwise unneeded by the proposed project?
- b. How functional are the assets in their current condition?
- c. What are the potential uses for the assets?
- d. What is the estimated cost to recondition/upgrade the assets for these identified potential uses? How much to demolish?

Criteria 6: Impact on Service Levels

20. Will proposed project bring service up to desired level?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What is the desired level of service?
- b. Was the target service level determined through a formal study? If not, what is determination based on?

21. Will the proposed project improve levels of service provided by more than one asset or function?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What other asset or function will be enhanced by the proposed project?
- b. How will levels of service be enhanced?

Criteria 7: Relationship to Other Projects/Coordination

22. Does the proposed project coordinate well with other ongoing or planned projects?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What other projects may be impacted by the decision to construct/acquire the proposed project at this time?
- b. Are there any special concerns that need to be addressed to ensure the development of the proposed project does not negatively impact other projects?

23. Can the project be effectively coordinated with other projects in the same area?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What other capital projects are being constructed/acquired in the same area?
- b. What are the steps necessary to ensure the proposed project does not negatively impact (or are negatively impacted by) other projects?

24. Does the proposed project address needs or otherwise benefit other jurisdictions?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What jurisdiction(s) will benefit from the proposed project?
- b. What are the potential benefits?
- c. Is there a potential for partnership with the jurisdiction? Click on gray area to insert response - box will expand as needed:

25. Is the project timely or subject to a window of opportunity?

Yes No N/A

If the answer is No or N/A, move on to the next question; if the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What is the timeframe for constructing/acquiring the proposed project?
- b. What are the potential negative impacts of delaying the project?
- c. Can construction/acquisition of the proposed project be phased or otherwise accomplished over multiple years?

26. Will the project create any disruption or inconvenience to the public?

Yes No N/A

If the answer is No or N/A, move on to the next question; If the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. What are the potential sources of disruption or inconvenience to the public?
- b. What steps can be taken to mitigate the problems?

27. Is the proposed project the best use of the funding available for its category of project?

Yes No N/A

If the answer is Yes, provide the following information in the space indicated below. Be sure to address each question:

- a. Are there other similar projects proposed (or expected to be proposed in the near future)?
 - Polydeck Screen
 - > A similar upgrade will be needed to a secondary screen
- b. Why is the proposed project the best use of the funds?
 - Polydeck Screen
 - > Longer wear life
 - > Less down time
 - > Improved safety



**Oconee County Quarry:
Upgrade Crushing Plant
Capital Project Presentation**

February 24, 2012

Projects

- Electric Chain Hoists
- Polydeck Screen Conversion

Electric Chain Hoists

- **Benefits**
 - Replaces manual hoist
 - Safer for employees
 - More efficient

Electric Chain Hoist



30 x 55 Telsmith Jaw Crusher



- Chain hoist used to remove oversized material

30 x 55 Telsmith Jaw Crusher



- Chain hoist used to remove oversized material

Polydeck Screen Conversion

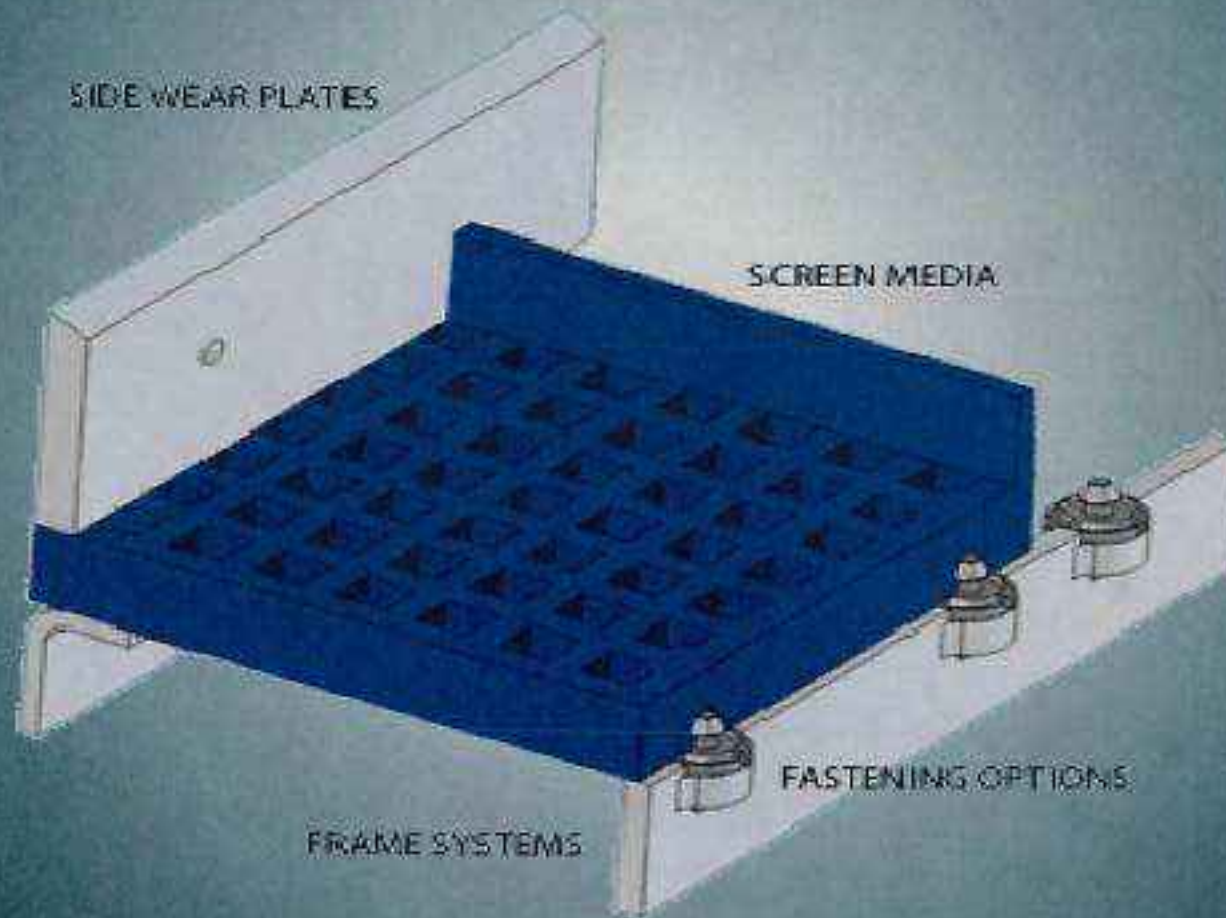
- Polydeck Screen Corporation is a South Carolina manufacturer, located in Spartanburg.
- Polydeck manufactures screen panels that are made from rubber and polyurethane.

Polydeck Screen Conversion

- **Benefits**

- Superior wear
- Reduces downtime
- Safer for quarry employees to lift
 - One person is able to lift the 1 ft x 2 ft panel instead of four people lifting the 4 ft x 5 ft wire screen
- Approximately nine decibels lower to reduce noise for our employees, customers, and neighbors

Polydeck Screen Conversion



Polydeck Screen Conversion

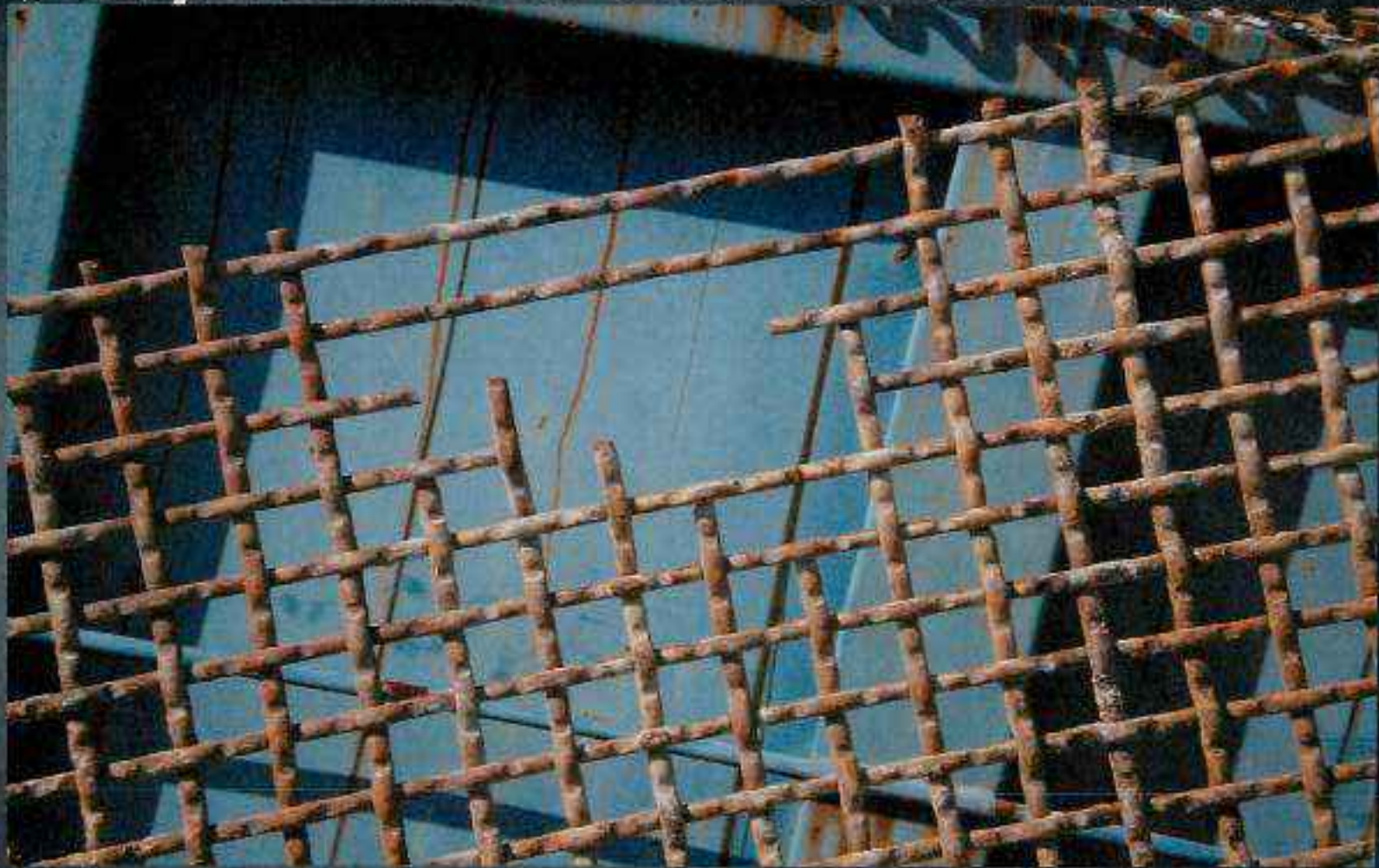


Polydeck Screen Conversion



- This is a 56.5" x 58.5" screen cloth

Polydeck Screen Conversion



- This is a 56.5" x 58.5" screen cloth

Quarry Capital Projects – Upgrade Crushing Plant:

1. Electric Chain Hoists – 2 purchased (1 primary/1 back-up)
 - a. JET 3-Ton Hoist - \$2,400
 - b. CM Load Star 3-ton Hoist - \$2,366
 - These replace a manual hoist used to remove large rocks that become wedged in the 30" x 55" jaw crusher.
 - This practice is much safer and efficient. Without the use of a hoist, employees have to get into the jaw crusher and physically remove boulders.
 - The life expectancy of an electric chain hoist is approximately 18 to 24 months due to extreme work and weather conditions; therefore a back-up should be maintained.
 - An alternative to using a chain hoist is a pedestal hammer at an approximate cost of \$75,000 to \$100,000. This option may be visited at a later time for even greater safety and efficiency.

2. Polydeck Screen – Rubberdex Panels

- We currently have a Simplicity 5' x 14' screen body that holds 3 - 56.5" x 56.5" wire screens. Each panel weighs approximately 150 to 250 lbs. depending on the screen size. To maintain these screens requires a minimum of four employees, one piece of mobile equipment, various hand tools and a cutting torch.
- The Polydeck Rubberdex panels will replace the existing frames and wire cloth inside the screen body weighing an average of 23 lbs each.
- The new frames will hold 35 - 12" x 24" panels. Each panel is easily accessible allowing one person with one hand tool to maintain the screen deck saving lost production time and reducing the possibility of injury.
- Some benefits of the new system will be approximately:
 1. \$14,000 annual savings in maintenance costs due to an increase in screen wear life.
 2. \$150,000 potentially in increased production revenue due to a decrease in down time. (4 hrs/mo x avg. 400tph = 1,600 tons x 12 = 19,200tpy x \$7.75 cost/ton of crusher run = \$146,800).
 3. Reduction of approximately 9 decibels in noise level due to a change from metal to rubber screen material.
- A bonus to purchasing from Polydeck Screen Corporation is that they are a South Carolina manufacturer.