

Fleet management Bus Purchase

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Do you have a bus purchase plan?



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The danger of no plan

- As buses age . . .
 - Increased need for mechanic's time
 - Increased maintenance costs parts
 - Decreased reliability
 - Potential failing MVI inspections
 - Loss of fuel economy compared with new buses
 - Environmental concerns exhaust, particulates
 - Parts availability
- And then all of a sudden:
 - Not enough buses left to do the job!

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Traps to avoid

- Arbitrary rules not supported by data
- Strictly age or mileage based
- No consideration of fleet capacity
- Buy only when we have the cash
- Wait until next year, then bring it up



Getting to success

- Design a bus replacement plan
 - Evaluate short term needs
 - Evaluate long term needs
 - Collect the data to support the need
 - Understand the financial impact
- Sell the plan
 - Develop understanding of the cost of not buying new buses



Another way . . . Data driven

Evaluate your buses:

- Cost analysis
 - Repair costs (separate from routine service)
 - Fuel costs
 - Labor cost
- Calculate your fleet averages



Compare your costs

- Individual buses to your fleet average
- Your fleet average to state average
- Your fleet average to an average of your peers
 - Where to get the data?
 - Most recent cost analysis report



State average cost per assigned bus

	FY 14	Your cost
Maintenance & Repair (+ supplies)	\$ 3,731	?
Fuel	\$ 6,793	?
Tires and Tubes	\$ 472	?
Bus Insurance	\$ 650	
Other	\$ 529	



What to do with the numbers?

- If your fleet average compares well to others, at least you are average!
- That does not stop you from improving
- Look at individual buses in your fleet
 - Arrange them by cost of operation/mile
 - Fuel+Maintenance+supplies



Then do what with the results?

- Most cost effective buses should be primary route buses
- Average cost buses should be approaching the end of their routing life
- Worst buses should be off route



The critical number:

Current Bus operating cost

- Operating cost of a new bus
- = fiscal benefit of replacement Example:

Old bus: 6000 maint + 7000 fuel= 13000

New bus: 1000 maint + 3500 fuel = 4500

Fiscal benefit: \$8500



Other factors

- Dependability
 - A bus that has a history of failure/ breakdown
- Buses that no longer fit your need
- 200,000 mile buses
- Ohio rust factor (8 -12 years)



And more factors...

- Environmental concerns
 - How dirty is your exhaust?
- Alternative fuel goals
- Worker's comp issues equipment related
- District population trend



Before you start buying . . .

- Assess your fleet needs
- Do not buy buses just because old buses are failing, buy buses because you need them in your fleet!



Assessing fleet needs

Primary Needs

- Handicap/WC buses needed
- Seats for regular ed students per tier
- Vehicle count (different than seating cap)
- Secondary needs
 - Route backup buses, maintenance rotations (state average 1:5)
- Nonroutine needs
 - Daily interfering trips (field trips)



Knowing the needs . . .

- Decide on your optimal fleet size
- Compare your useful fleet to your optimal fleet size
 - This gives you your short-term need



For your healthy buses:

- Plot their useful life cycle
 - Cost effective, rust-free, dependable
- Schedule new bus purchases in years when buses are below average usefulness
- Those buses rotate to sub status, new buses move to primary routes



Important note

- You will need to rotate the bus assignments
 - Newest buses to long routes
 - Previous effective buses move down the routing ladder
 - Formerly mediocre buses to sub status
 - Worst buses leave the fleet



The field trip decision

- Keep one or two better buses available for long field trips
 - Or
- Pull newer buses off routes for longer field trips

Either one has positives and negatives



Two cautions

- Avoid loading up on one model year
 - They will all wear out at the same time
- Work with the treasurer to meet fiscal capacity – balancing operating cost with capital cost



All things being equal:

- Use age or mileage as a starting point
- Remember that bus cost is more closely related to age than mileage
- Annually evaluate this base-line plan in light of the cost and other factors discussed earlier



Life Cycle notes

- Special ed buses
 - Shorter life span, more specialized eqpmt
 - Accumulate mileage quicker
- Regular route buses
 - Longer life span
 - Body wear, brakes, driveline, seating damage
- Field trip and sub buses
 - Abused, problems not always reported
 - Orphaned—no regular tlc



And now, to buy a bus

- Legal aspects
- Timeline
- Needs analysis
- Specifications
- Process
- Purchase options
- Delivery



Legal aspects

- Tax money, requires competitive bidding, with all of its own elements!
- RC 153.54 Bid guaranty
 - Bond for 100% or Credit letter of 10%
 - Held by district to ensure bid is accepted
 - If bidder does not accept bid, they forfeit the bid guaranty



More legal aspects

- RC 3313.172 allows districts to purchase outright or lease-purchase
 - What is a lease-purchase?
- RC 3313.41 disposal of old buses. Any property with value over 10,000 must be auctioned, unless sold to another school



And more legal . . .

- RC 3313.41 also allows donation to eligible nonprofit (fire department)
- RC 3313.46 any purchase over 25,000 requires competitive bid
 - Legal ad 2 times at least 14 days in advance of opening or advertise 1 time and post notice on web



RC 3313.46 continued

- Bids must be opened on advertised date and time, unless formally extended (board action required)
- None but the lowest responsible bid shall be accepted
- May reject all bids



RC 3313.46 continued

- If two or more bids are equal, either may be accepted
 - But in no case can bid be divided
- If collusion is suspected among bidders, those bids must be rejected



RC 3327.08

- Empowers schools to purchase buses, either on their own or through consortiums
- But <u>only</u> after competitive bidding
- No reference in this section to other types of motor vehicles



Needs analysis

- What capacity bus?
 - Real capacity, not rated capacity
 - Standardized capacity in fleet?
 - It takes 2 small buses to cover 1 large one
 - Special ed buses
 - Is there room for another wheelchair
 - Can you take the whole class in 1 trip?



Vehicle style

- Conventional vs. transit
 - Passenger capacity
 - Wheelbase
 - Visibility
 - Maintainability
- Within transit
 - Front or rear engine?



Engine Size

- Most engines are now Cummins C
- 200 hp, 220 hp, 240 hp
- Torque ratings
- What do you need:
 - Power to manage your district
 - Good fuel economy
 - Lowest entry cost



Other engine items

- Cylinder configuration I-6, V-8
- EPA compliance equipment
 - Exhaust after treatment
 - SCR (selective catalytic reduction) systems standard
 - Requires the use of DEF (diesel exhaust fluid)
 - Some EGR still in market



Construction standards

- All buses nationwide comply with FMVSS standards
 - Self certification, with aftermarket testing
- Ohio buses also comply with Ohio school bus construction standards
- Includes listing of approved options
- Ohio's standard limits other items



Identifying specific options

- Industry changes regularly
- Work with vendors or industry experts to learn about options, what benefits they may have, and how they meet your needs
- Options must be approved
- New option test process via OSP



Decide what you want

- Look at what others have purchased
- Evaluate what has worked for you
- Determine if cost is worth it for you

 There is nothing wrong with buying a state minimum standard bus!



Delivery dates

- Typical benchmark 9 months
- Most districts try to buy to get a bus before school starts
- Better time to buy: Fall or Winter



If you need a bus NOW!

- Resolution of urgent necessity
 - Waives competitive bid
 - But . . .
- Another option- alternate bids with delivery stipulations
- Find a new bus on a dealer's lot that is already built and ready for you
 - Accept it the way it was built, may not match your other buses.



Your bid packet

- Size and style of bus
- Chassis specifications
- Body specifications
- Instructions to the bidder
- Vendor information and affirmation
- Property Tax affirmation
- Bid bond instructions



Legal ad

- Placed once or twice
 - Notice of bid
 - Bid opening date
 - Contact information



Bid opening

- This is a formal process
- Bids must be received before the opening
- No changes accepted after the deadline
- No bids accepted after the deadline
- Read aloud, many vendors will want to see copies



Bid analysis

- Compare separate bids carefully, making certain it is apples to apples
- Exceptions to a bid requirement may result in a cost advantage
- If you asked for option pricing, make certain all vendors bid the same option



What is a 'responsible bid'?

- Vendor needs to meet your specifications
- You can also consider history, with respect to:
 - Quality of previous purchases
 - Quality of work and facilities of vendor
 - General ability and capacity to fill bid
 - Competence, integrity and judgment



Unique situations

- You may reject all bids
- If two bids are equal and lower, either may be accepted. You may NOT divide the purchase between the two bidders.
- If you believe there is collusion between the bidders, those bids shall be rejected



Do you really want to stick with just one brand?

<u>Diversity</u>

- Increased inventory
- Requires more product knowledge
- Wider dealer network
- Increases bidding competitiveness
- Major issues are compartmentalized, minimizing fleet impact

Similar Vehicles

- Inventory is easy
- Product knowledge is leveraged
- Common defects are known
- Decrease bidding competition
- Major issues can paralyze fleet
 - "Carpenter Syndrome"

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Buy it!

- Issue Purchase Contract
 - Stick to the bid
- Upon delivery, inspect
- When in compliance, OSP Inspection
- Title must be on site
- OSP inspectors will leave you a form to send to BMV for registration
- Insure it

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Disposal of old buses

- Any bus that is over 10 years old is considered to be a local bus, and may be sold or disposed of as needed
- Any 'funded' bus that is less than 10 years old must be made available to other eligible programs, and may not be sold without ODE permission.



Lease Purchase

- An alternative to outright purchase is the leasepurchase
- This is actually an installment purchase, not a traditional lease
- With low rates, it is possible that the interest cost is less than your operating cost of an old bus
- The net effect is if you lease-purchase several buses, you may save enough operating cost to reduce the effective price of the bus by 20-30k.



Closing points

- Consortium bids
- Joint purchases with other districts
- Use of outside services to bid
- Understanding the industry margins and pricing



Thank you!





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