

## ***General Session 1***

# ***Standards for Best Practices***

***Michael Payne, AIA***



The Jones Payne Group

***October 21, 2002***

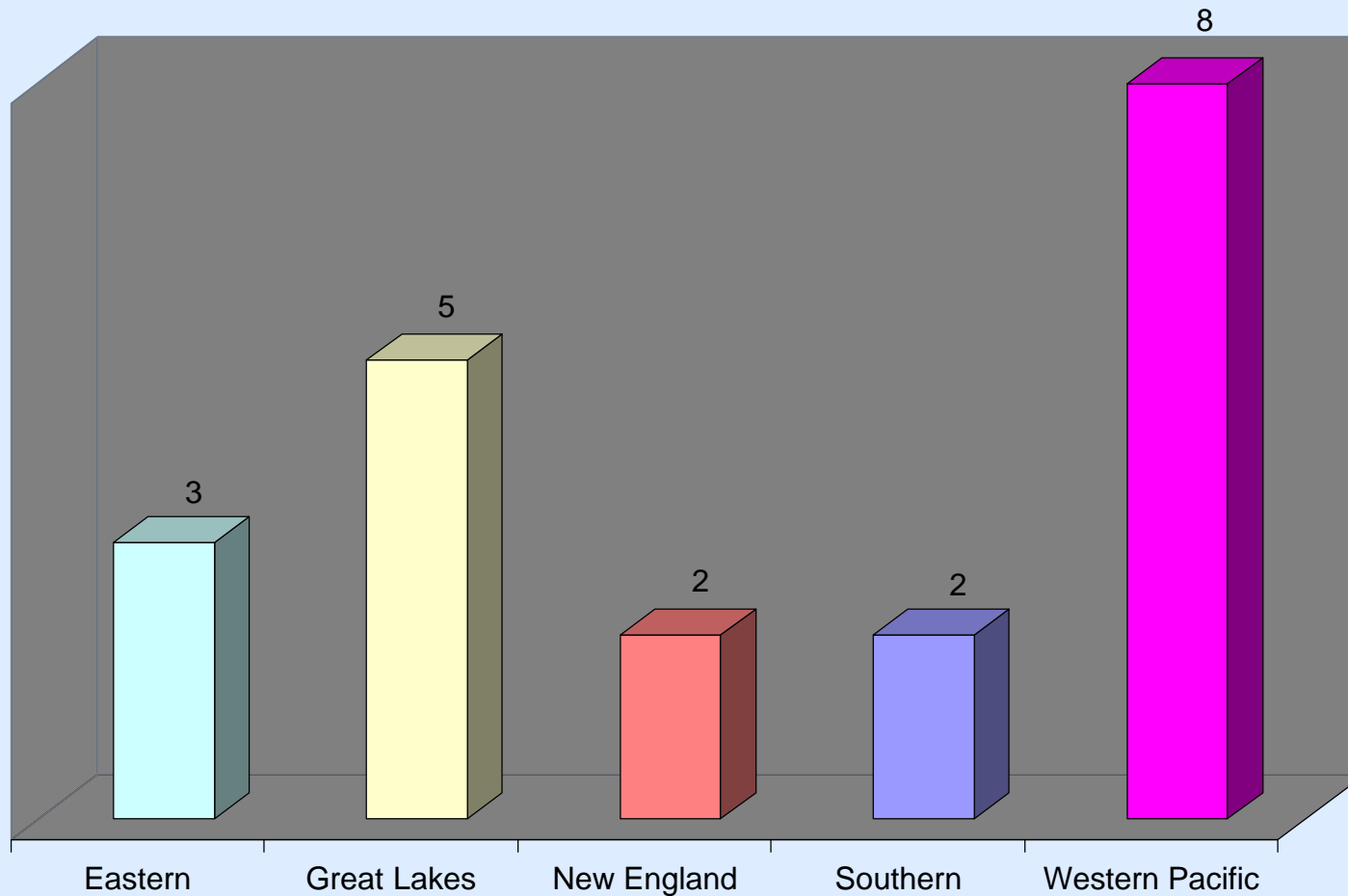


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***AAAE / Quieter Homes Sound Insulation Symposium, 2002***

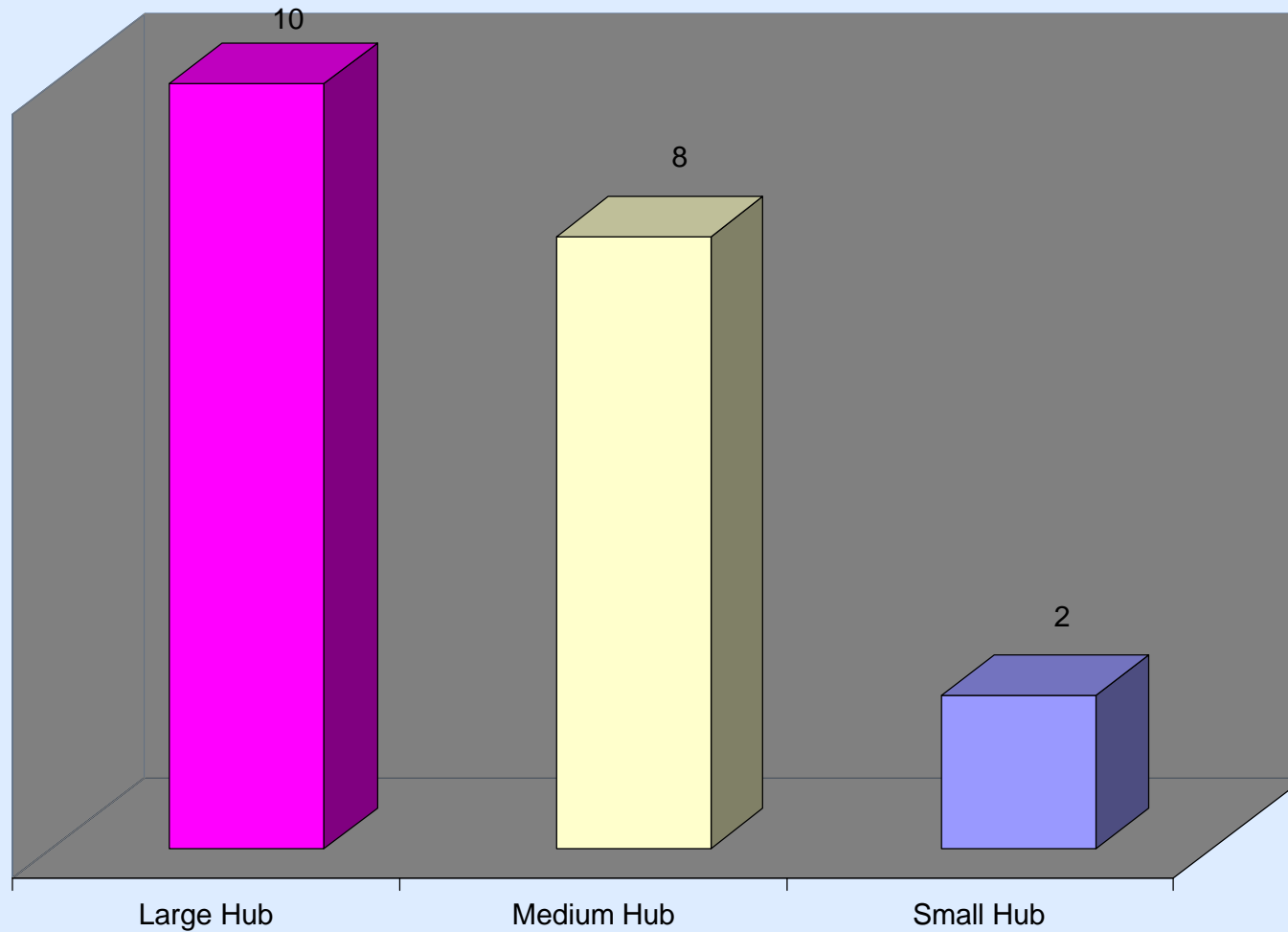


# RESPONDING AIRPORTS (20) BY REGION





# RESPONDING AIRPORTS (20) BY HUB TYPE



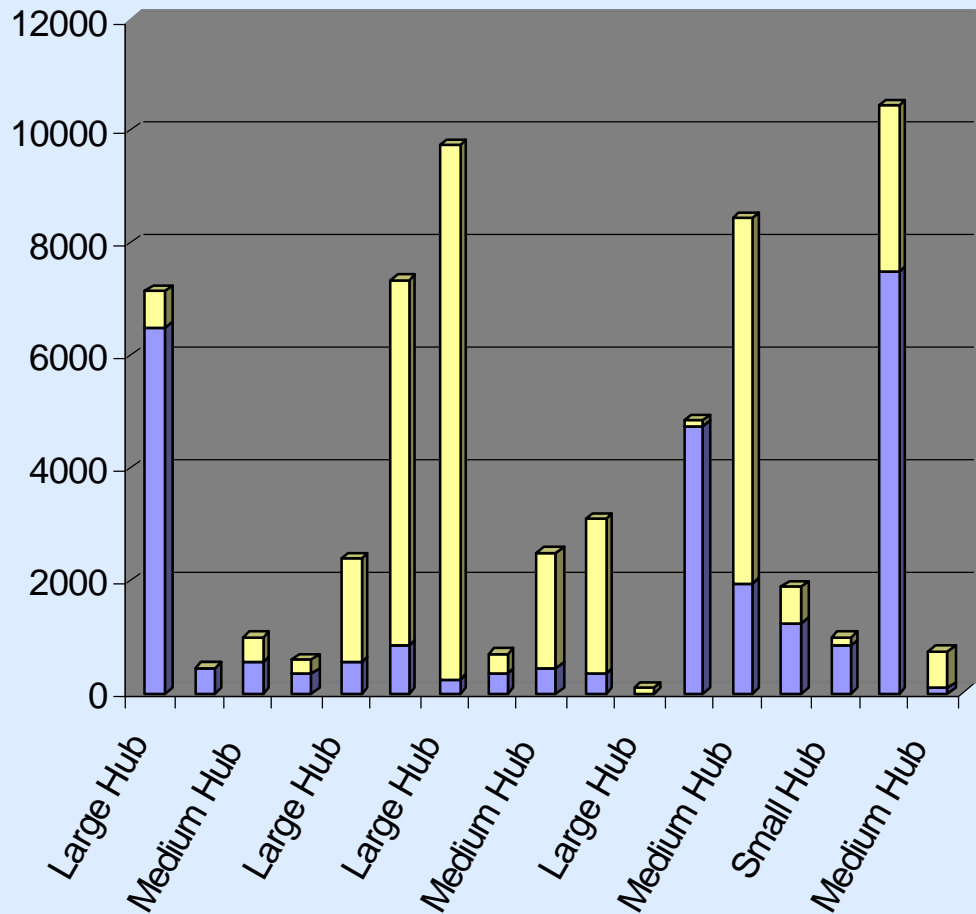


# *What's Being Sound Insulated?*





# RESPONDING AIRPORTS - PROGRAM SCOPE



**Units Eligible: 44,200**  
**Units Complete: 25,950**  
**Units Remaining: 18,250**

■ 7. Units Remaining (Estimated)  
■ 6. Units Completed (Estimated)





## WHAT STRUCTURE TYPES ARE BEING SOUND INSULATED?

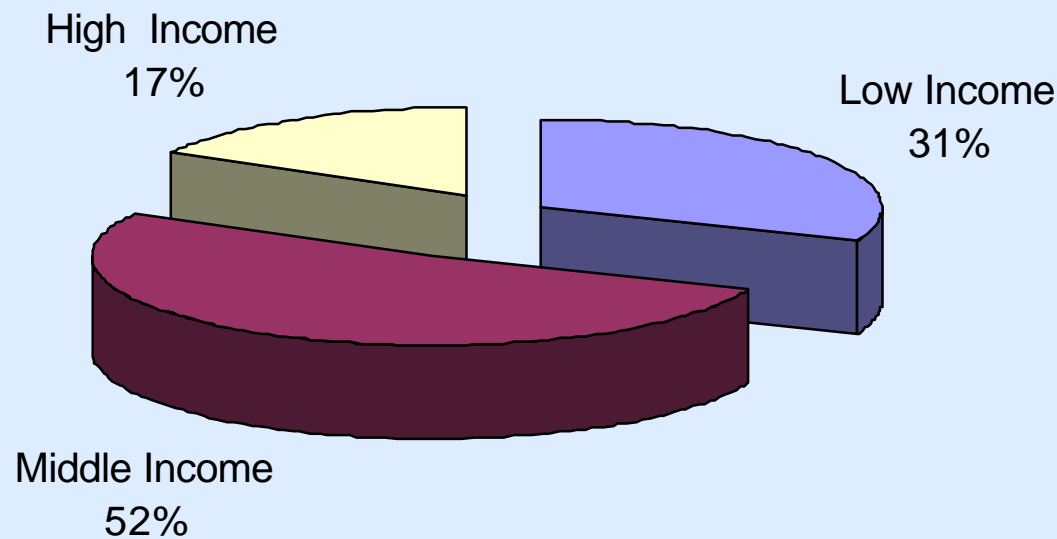
- **100% of Responding Airports are sound insulating Single Family Homes**  
*(63% of Responding Airports have programs composed of 95% or more Single Family type homes)*
- **50% of Responding Airports are sound insulating Multi Family Homes**
- **12% of Responding Airports are sound insulating Apartments**
- **18% of Responding Airports are sound insulating Condominiums**
- **62% of Responding Airports have sound insulated Schools**
- **6% of Responding Airports have sound insulated Churches,**  
**and another 12% have Churches that are eligible for sound insulation**

**88% of Responding Airports Consider Tenant-Occupied Units  
Eligible for Sound Insulation**





## INCOME DEMOGRAPHICS OF HOMEOWNERS BEING SOUND INSULATED



35% of Responding Airports note that their program services a multi-lingual community

12% of Responding Airports provide program information in a language other than English



# *Program Infrastructure & Costs*







# PROGRAM SERVICES

Are the following services provided by in-house staff, by the prime consultant, or by another consultant?

	% In-House	% Prime Consultant	% Other Consultant	% None
Program Management	47%	53%	0%	0%
Homeowner Liaison/Coordination	38%	56%	6%	0%
Community Outreach/Public Relations	47%	35%	18%	0%
Architecture	6%	65%	29%	0%
Mechanical/Electrical Engineering	0%	17%	0%	0%
Bid / Award Coordination	83%	71%	6%	0%
Construction Administration	24%	71%	6%	0%
Resident Inspection	24%	65%	12%	0%
GIS	38%	0%	44%	19%
Database Management	41%	0%	59%	0%





## PROGRAM TESTING

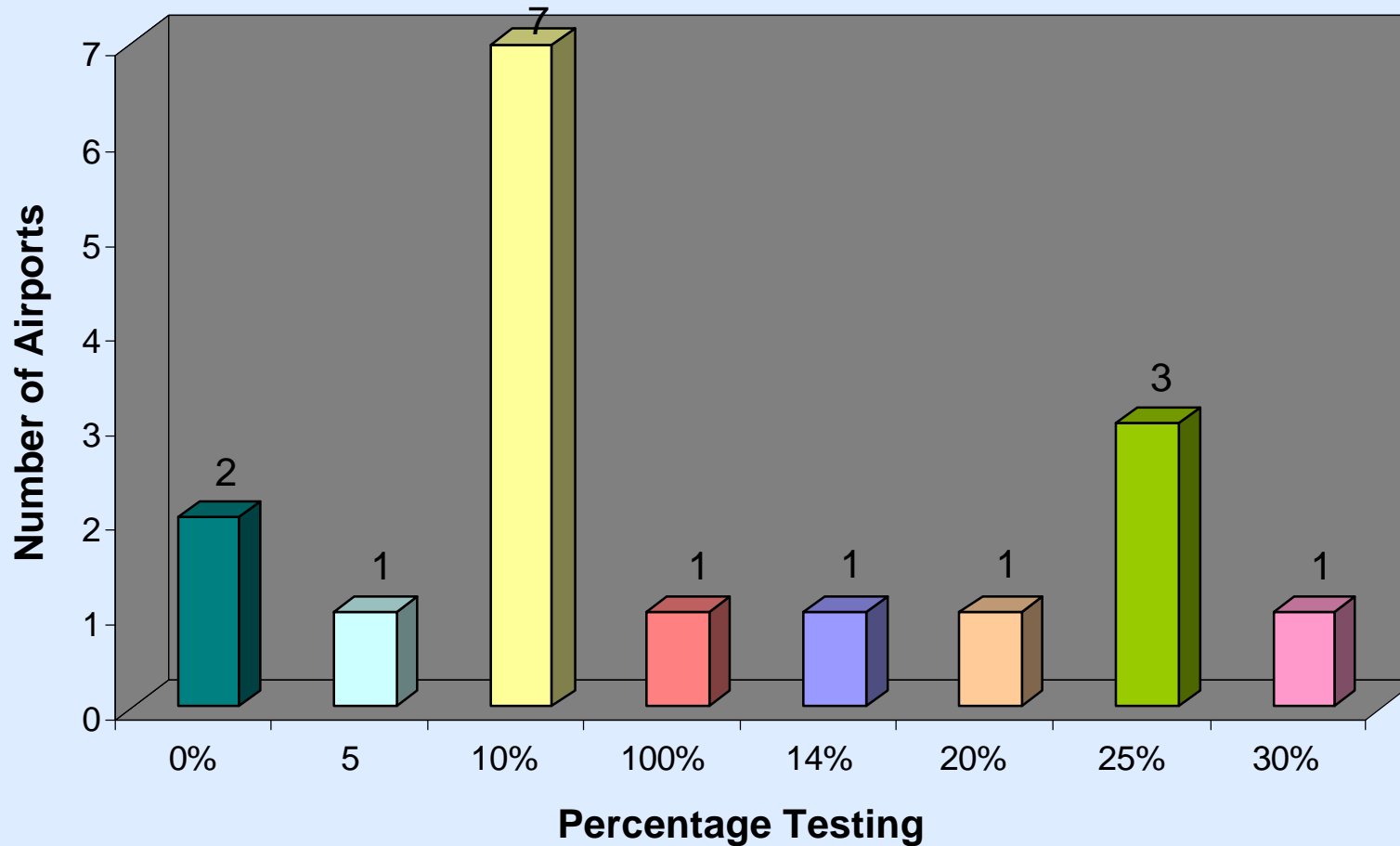
Are the following services provided by in-house staff, by the prime consultant, or by another consultant?

	% In-House	% Prime Consultant	% Other Consultant	% None
<b>Acoustical Design / Testing</b>	6%	41%	<b>53%</b>	0%
<b>Lead Testing</b>	6%	13%	<b>50%</b>	31%
<b>Blower Door Testing</b>	0%	13%	0%	<b>87%</b>
<b>Radon Testing</b>	0%	0%	0%	<b>100%</b>
<b>Asbestos Testing</b>	6%	0%	<b>63%</b>	31%





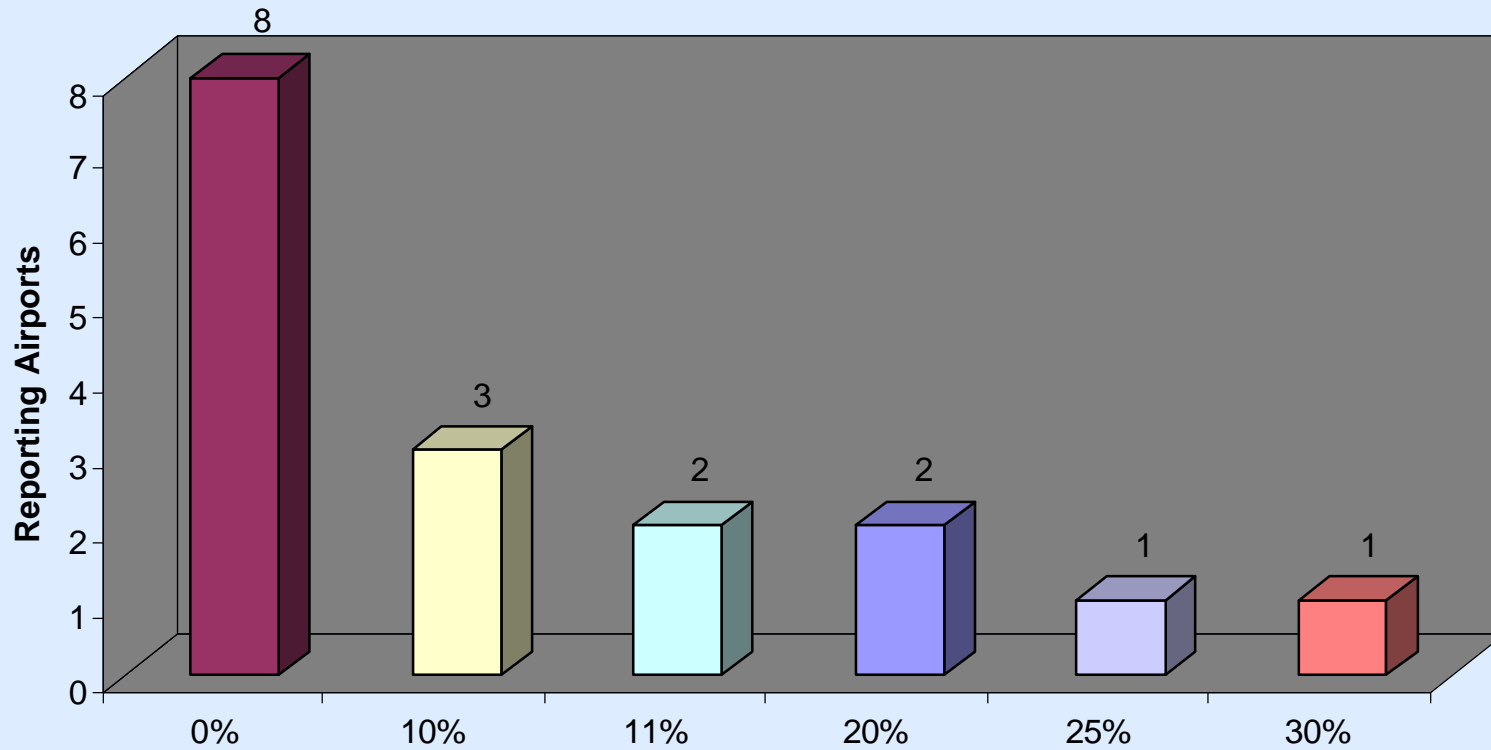
# PERCENTAGE OF UNITS ACOUSTICALLY TESTED





# CONSULTANT DBE PARTICIPATION GOALS (%)

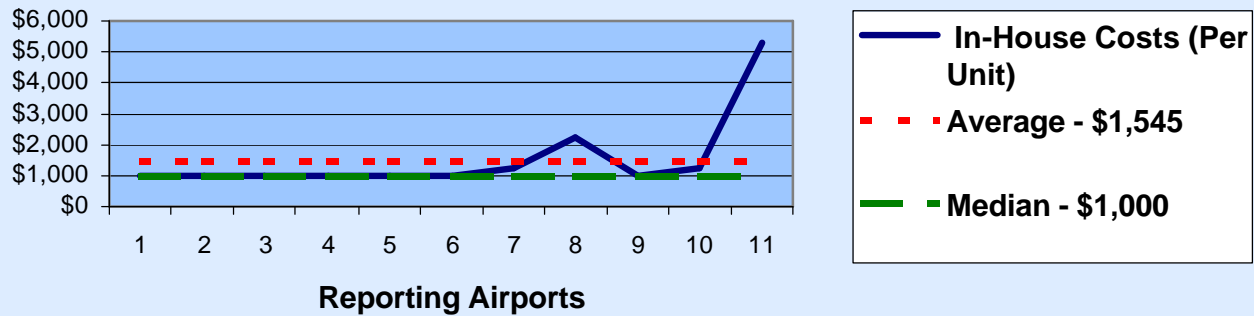
Consultant DBE Participation Goals (%)



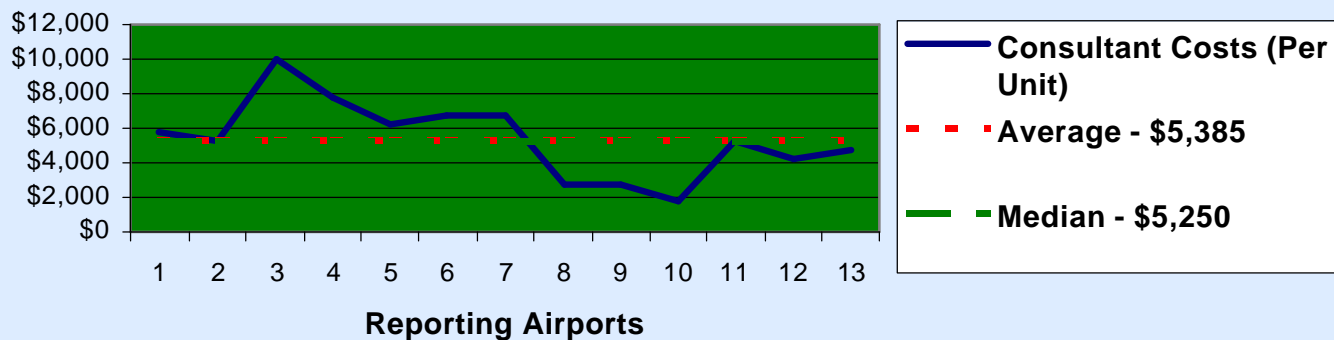


# IN-HOUSE AND CONSULTANT COSTS (SOFT COSTS)

### Average In-House Cost per Unit



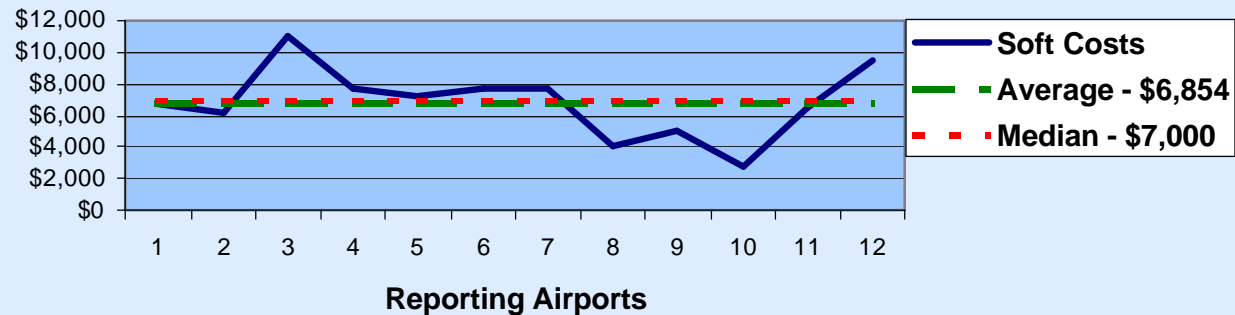
### Average Consultant Cost per Unit



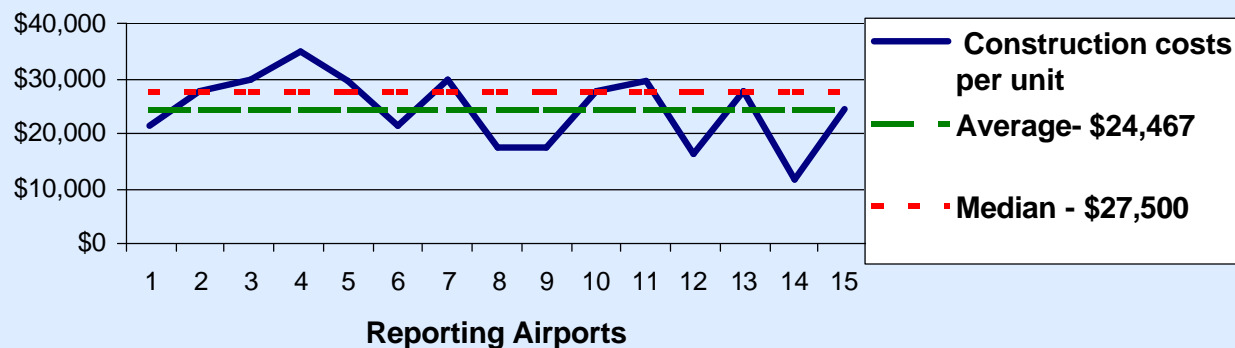


# SOFT COSTS AND CONSTRUCTION COSTS

### Combined Consultant & In-House Costs per Unit (Soft Costs)

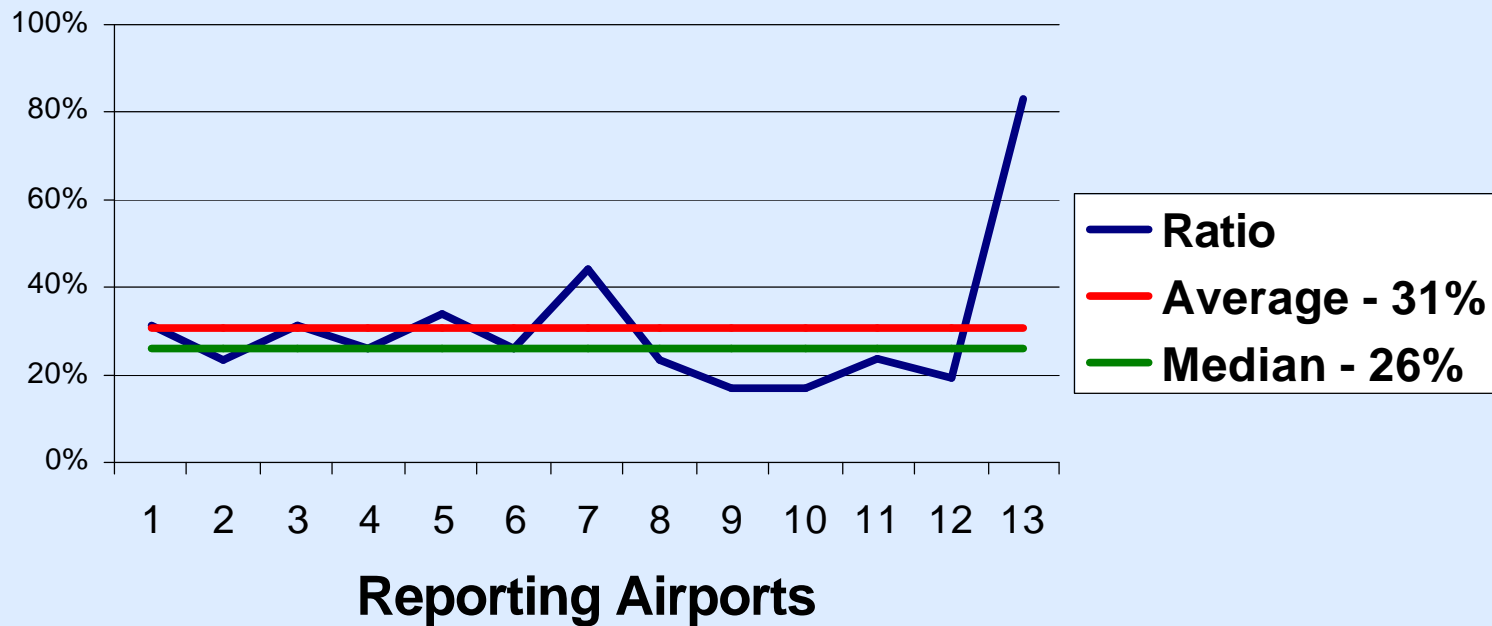


### Average Construction Costs per Unit





# RATIO OF SOFT COSTS TO CONSTRUCTION COSTS PER UNIT





# *Types of Treatments*







# PRIME AND SECONDARY WINDOW TREATMENTS

What types of windows is your program using?

	% YES	% NO	% No Response
Number of Programs Using Metal Windows	50%	0%	50%
Number of Programs Using Vinyl Windows	78%	22%	0%
Number of Programs Using Wood Windows	33%	6%	61%
Number of Programs Using Secondary Glazing	78%	0%	22%

Number of Programs Providing a Single Window Type: **One**

Number of Programs Providing Two Window Types: **Nine**

Number of Programs Providing Three Window Types: **Two**





# PRIME AND SECONDARY DOOR TREATMENTS

## What types of doors is your program using?

	<b>% YES</b>	<b>% NO</b>	<b>% No Response</b>
Number of Programs Using Specialty Acoustical Doors	<b>67%</b>	22%	11%
Number of Programs Using Custom Residential Wood Doors	<b>50%</b>	22%	28%
Number of Programs Using Metal Doors	17%	<b>11%</b>	<b>72%</b>
Number of Programs Using Storm Doors	<b>72%</b>	0%	28%

***Number of Programs Providing both Specialty Acoustical and Custom Residential Wood Doors: Five***





## MISCELLANEOUS TREATMENTS

Does your program provide and pay for any of the following?

	% Yes	% No
Cosmetic finishes (eg, painting, wallpaper)	69%	31%
Air Conditioning	76%	24%
Supplemental Fresh Air	59%	41%
Attic Insulation	88%	12%
Wall Insulation	29%	71%
Roof Treatments	25%	75%
Ceiling Treatments	50%	50%
Wall Treatments	44%	56%
Chimney Baffles	44%	56%
Fireplace Doors	40%	60%
Carbon Monoxide Detectors	44%	56%
Smoke Detectors	37%	63%





## DEFICIENCIES AND CODE CONDITIONS

Are the following conditions paid for by the program or by the homeowner?

	% Program	% Homeowner
Egress Windows	<b>75%</b>	25%
Security grilles at egress windows	13%	<b>87%</b>
Electrical upgrades	<b>88%</b>	12%
Combustion air	<b>57%</b>	43%
Code landings	21%	<b>79%</b>
Code railings	13%	<b>88%</b>



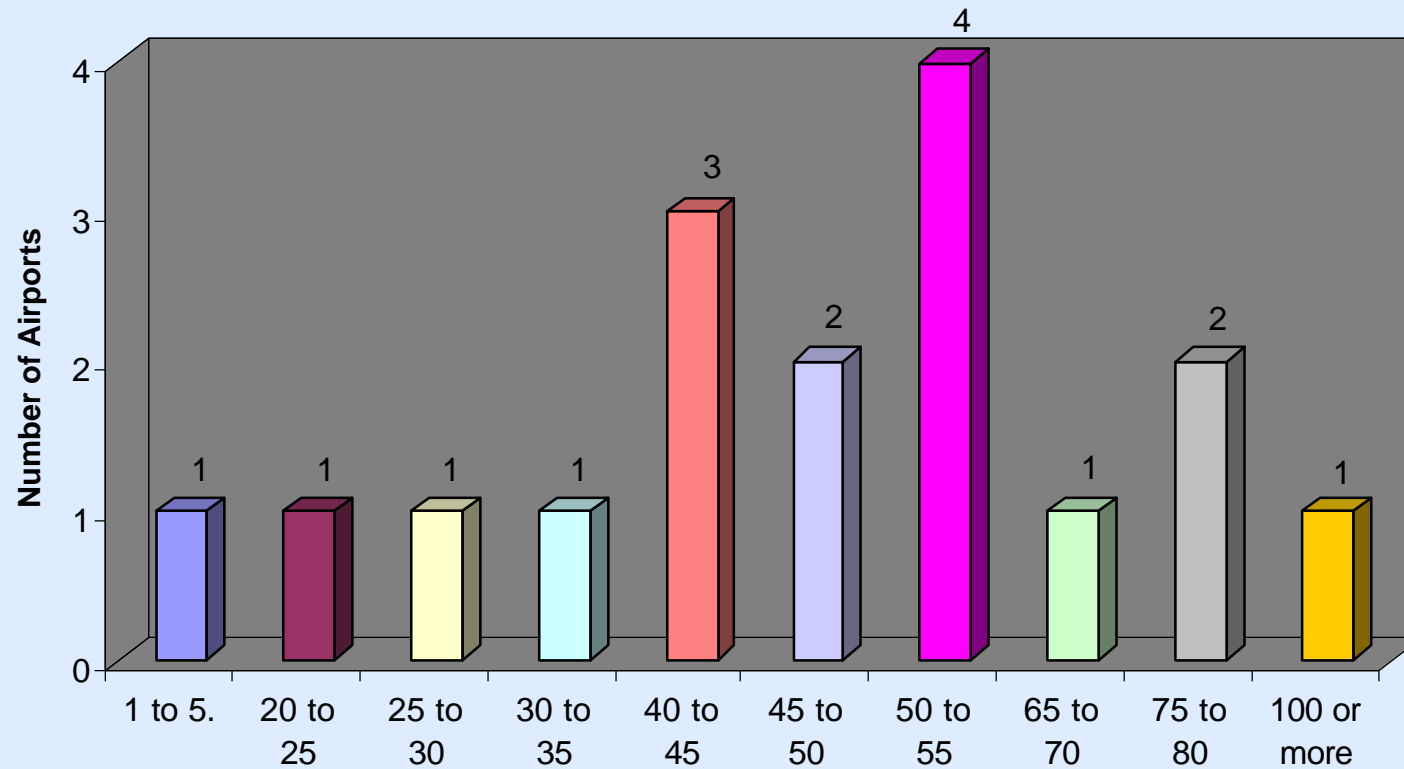


# ***Bidding & Contractors***



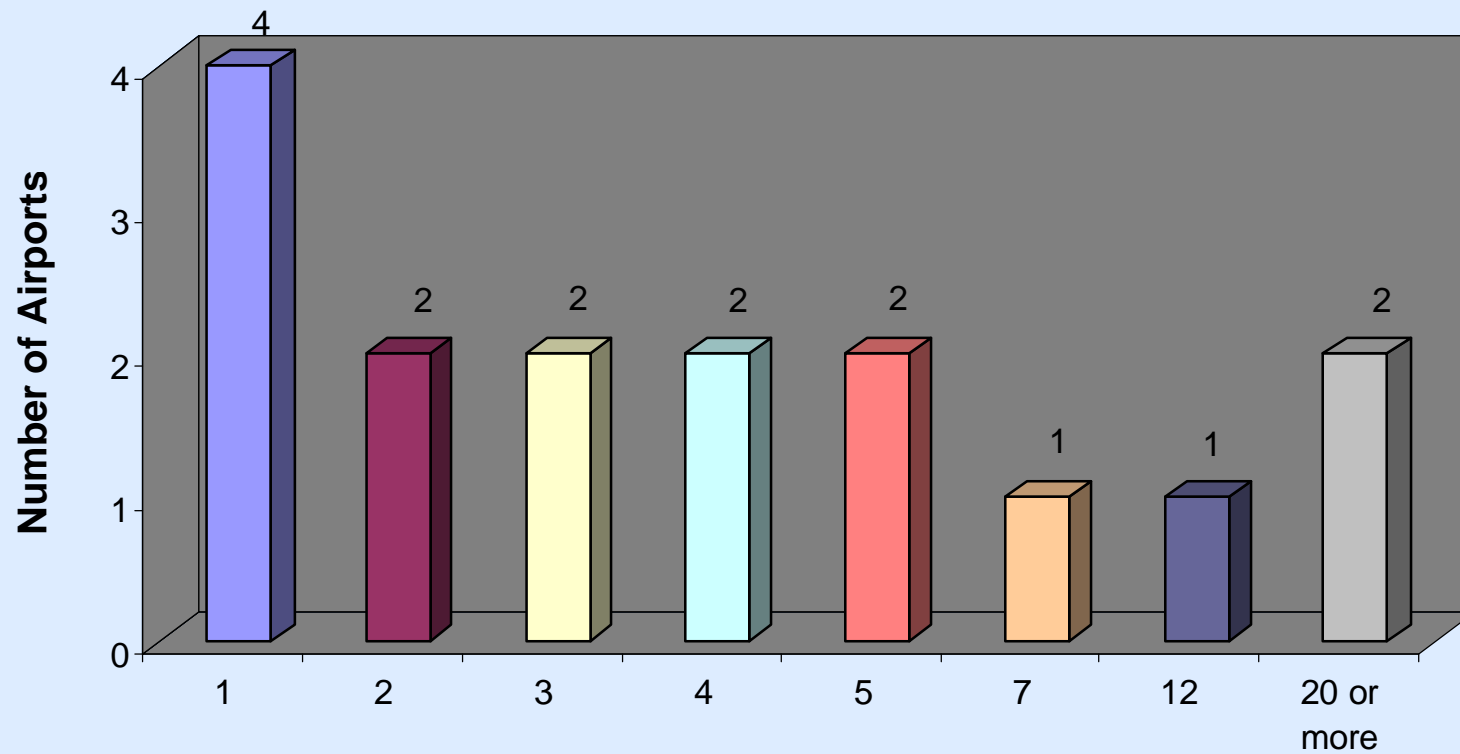


# NUMBER OF UNITS IN AVERAGE BID PACKAGE



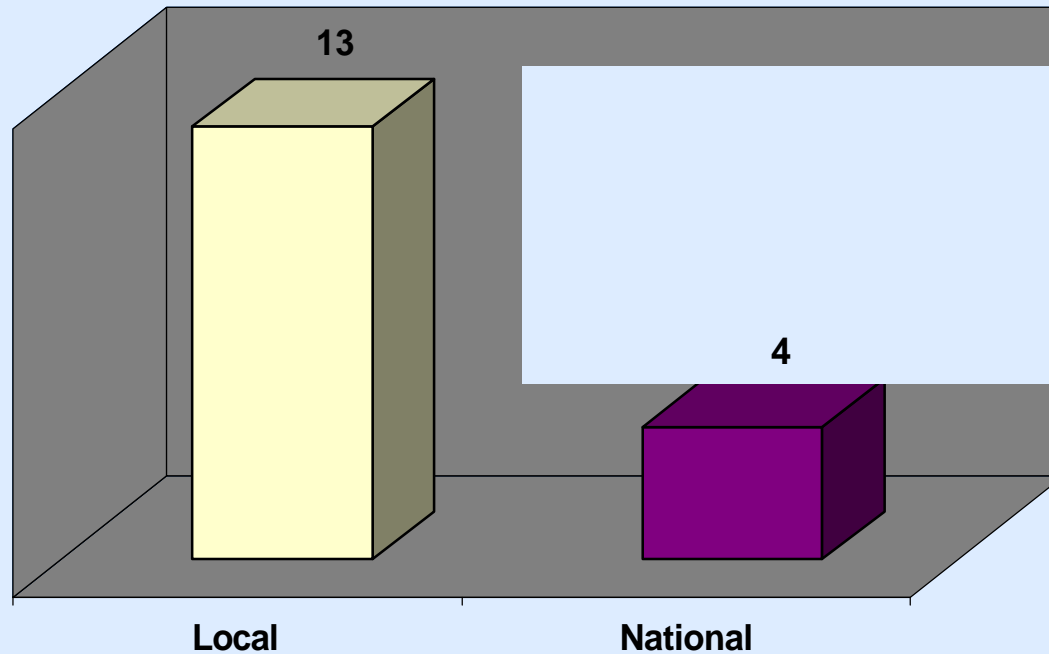


# AVERAGE NUMBER OF BID PACKAGES PER YEAR





## LOCAL/NATIONAL CONTRACTORS PARTICIPATION IN SURVEYED PROGRAMS

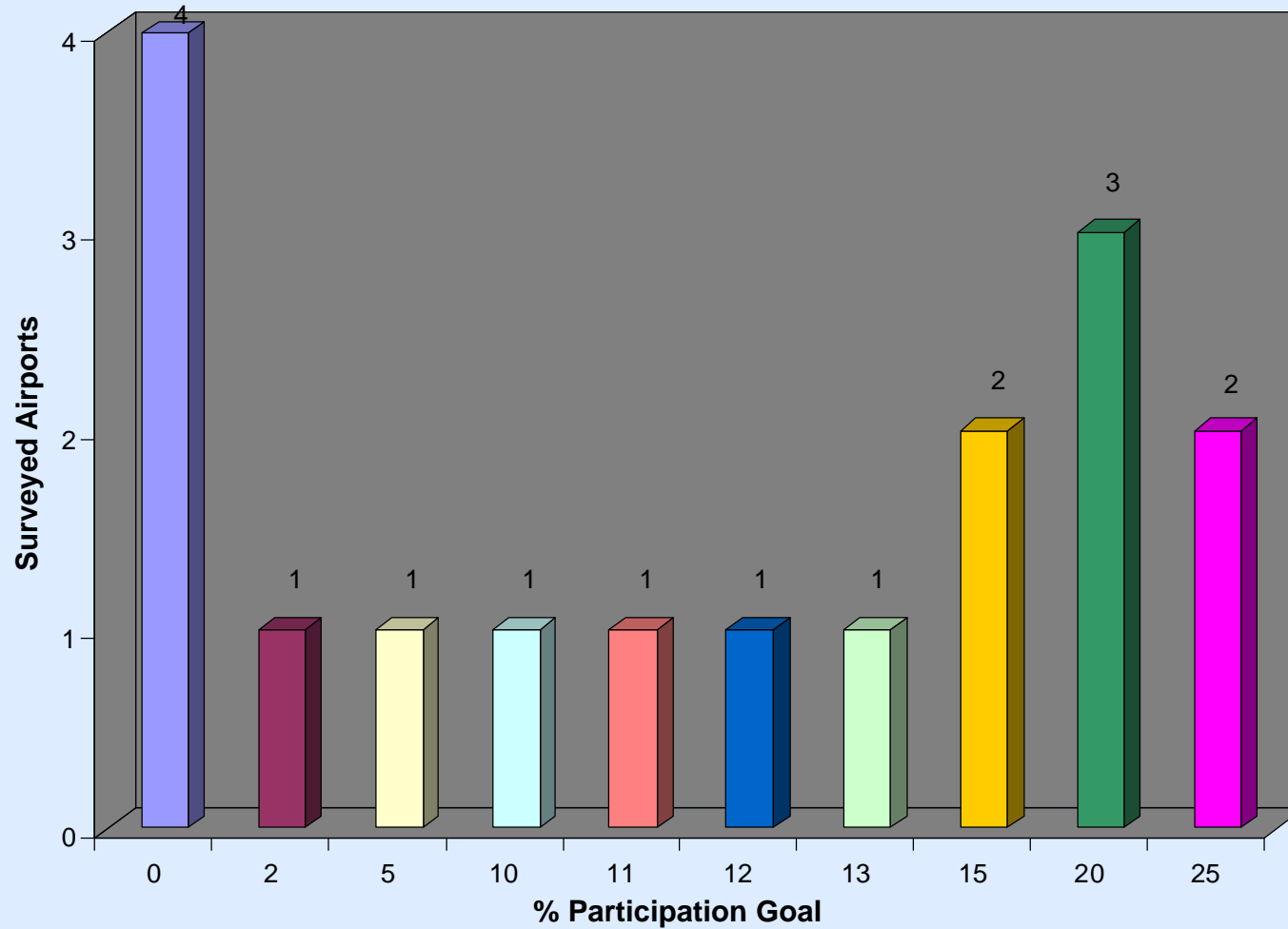


**71% of surveyed Airports undertake contractor outreach to involve local contractors**





# CONTRACTOR DBE PARTICIPATION GOALS (%)





# *Current Issues & The Future*





## CHANGES THAT AFFECT NOISE IMPACT AREA

What major changes does your airport anticipate?

<i>Percentage of surveyed airports reporting Terminal Expansion</i>	<b>52%</b>
<i>Percentage of surveyed airports reporting Runway Expansion</i>	<b>24%</b>
<i>Percentage of surveyed airports reporting New Runways</i>	<b>41%</b>
<i>Percentage of surveyed airports reporting Cargo Operations</i>	<b>41%</b>

**Only 12% of surveyed Airports did not anticipate major changes that would affect the Noise Impact Area**





## ISSUES FACING PROGRAMS

### What issues is your program facing?

Percentage of surveyed airports reporting issues related to <i>Funding</i>	71%
Percentage of surveyed airports reporting issues related to <i>Product Suppliers</i>	29%
Percentage of surveyed airports reporting issues related to <i>Consultant Services</i>	6%
Percentage of surveyed airports reporting issues related to <i>Contractors</i>	53%
Percentage of surveyed airports reporting issues related to <i>Community Relations</i>	18%
Percentage of surveyed airports reporting issues related to <i>"Other Issues" *</i>	29%

\* "Other Issues" reported included:

*Homeowner reluctance to participate in program.*

*Davis Bacon Wage issues*

*Dollar limits on purchase of avigation easements.*

