Gravel runway condition assessment: Creation of an Inspection Program for Rural Alaskan Airports



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Purpose

Develop a program that will provide AKDOT&PF critical data both qualitative and quantitative on the condition of the airport to allow for maintenance planning and to point out critical areas that need near term attention.



What are we assessing?

Condition of surface – rutting, loose aggregrate, cracking, pot holes
Condition of support system – lights, segmented circle, wind sock, buildings
General condition of airfield – petroleum spills, sight distances, clearances
Strength of runway surface – Geogauge (stiffness), DCP
Performance of dust palliative (if present)
Soil properties – particle size distribution, compaction, moisture content





Loose Aggregate









Typical Results – Chicken Runway











New Intake Concept





Position of Intake



Summary

State of Alaska is going to adopt the program
Further development of methodology is required
Providing State of Alaska with important data
Introducing engineering students to the transportation field

Co-Authors and Funders

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Questions ?