

No.	Activity Title	Activity Description	Potential Lead Agency	Other Agencies Involved	Duration	Inter-Dependencies	Prelim. Cost
1	Legislative Funding Initiatives to Support the Relocation of Newtok to Takikchak	Recognizing the rather unique situation that Newtok is in, the normal funding mechanisms and funding streams and amounts of funding available to Newtok do not appear to be adequate to accomplish a relocation of the village in a timely and reasonable manner. Therefore, key funding initiatives would be developed and presented to appropriate state (and perhaps Federal) legislators to help ensure that the relocation of Newtok can be realized. A Task Force consisting of representatives of NTC and appropriate agencies would be formed to carry out this activity.	DCED	NTC; Denali Commission; AVCP; HSEM.	Six Months	This could involve joint funding and a collaborative effort among participating agencies.	\$50,000
2	NEPA Studies and Documentation for the Relocation of Newtok	This involves conducting the required environmental, physical, and social studies required to support a proper NEPA assessment, evaluation and documentation of the relocation of the Newtok Community to the Takikchak site. Because of the potential need for multiple project-specific NEPA documentation accompanying the complexity of relocation activities (e.g., airport development, Harbor and Barge Landing development) it would be appropriate to prepare a "Programmatic" NEPA document (likely an EIS). Since the NEPA document is likely to be programmatic, a wider geographic scope may be necessary to ensure that all potential locations for facilities required by the community are evaluated. The supporting technical studies would include a coordinated environmental investigation of the Takikchak site and environs, including fish and wildlife habitats; migratory bird activity; endangered species; and wetland identification.	COE	NTC; AKDOT-PF; FAA; DCED; Denali Commission.	Two Years	The required technical support investigations and studies would commence fairly early in the relocation planning process, and be completed before preparation of the Community Layout Plan (Activity #6), and once the general location of the new community is known. COE initiated a programmatic EIS in August 2005. Please see Activity #19 for additional information.	\$600,000
3	Takikchak Airport Reconnaissance Study	This study involves identifying, assessing, and evaluating at a conceptual level reasonable alternative locations for a new airfield in the vicinity of the Takikchak site to serve the relocated Newtok Community.	AKDOT-PF	NTC; FAA; COE.	One Year	This activity links to Detailed Airport Study and Design (Activity #23). This activity was initiated by AKDOT-PF in May 2005.	\$100,000
4	Aerial Photography Survey of the Takikchak Study Area	This involves an aerial photography survey of the Takikchak site and environs, using sufficient ground control to be able to provide 1" to 100' scale for planning purposes. The controls would also be established in enough detail to allow 5-foot contour topographic mapping to be developed. The survey would be coordinate with other agencies needing survey and mapping for planning and design puposes (e.g., AKDOT-PF).	COE	DCED; AKDOT-PF;	Six Months	This activity would be performed prior to developing the Community Layout Plan (Activity #6), in order to provide valuable baseline information to a variety of agencies involved in the Newtok relocation planning effort. The ground controls established for this activity would be set up to facilitate the detailed topographic mapping required for subsequent design work (e.g., Activity #8). Aerial photography of the new site (Activity #4) was performed in June 2005.	\$25,000
5	Comprehensive Archaeological Survey of the Takikchak Site Area	This involves conducting an archaeological survey of the Takikchak site and environs and prepare a suitable report documenting the methodology and findings. This study will provide valuable guidance in the conceptual and detailed planning for the community and for all infrastructure and facilities (e.g., airfield, landfill) needed to serve the relocated Newtok Community.	COE	NTC;	Six Months	This investigation precedes the preparation of the Community Layout PPlan (Activity #6) and specific feasibility studies and design so that known archaeological sites and traditional uses can be preserved or otherwise accounted for and proper mitigation steps taken. The COE performed a preliminary survey in 2002, and re-initiated and expanded this activity in Summer 2005. The COE will complete this activity in Summer 2006.	\$75,000
6	Community Layout Plan	Drawing upon past community planning efforts for other villages, and coordinating with the planning already done for Newtok, a "Community Layout Plan" for the Takikchak site would be prepared. The Plan would identify specific sites for all necessary community elements. The Newtok Community would be involved in the process. This Plan would also describe how the former Newtok village site would serve the residents of the "New Newtok".	NTC; COE	DCED;AK DOT-PF; Rural CAP.	One Year	This activity would be coordinated with the Takikchak Airport Reconnaissance Study (Activity #3). Also, this activity requires that Aerial Photography (Activity #4) is completed, the Archaeological Survey (Activity #5), and the Topographic Mapping (Activity #8) and NEPA Environmental Surveys (Activity #2) are underway.	\$200,000

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7	Relocation Funding Plan for Newtok	This involves the following: (a) identifying, assessing, and documenting existing grants and funding programs available to Native Alaskan Communities that could assist Newtok in the relocation effort; (b) providing assistance to Newtok in obtaining these grants and other funds; (c) developing an overall Funding Plan that utilizes existing funding sources and funding streams, creates special funding programs targeted at assisting the unique situation of Newtok; and includes private funding sources such as foundations. The Community is currently receiving about \$55,000/year from AVCP-RHA. Administration for Native Americans could provide \$175,000/year for 3 years. Newtok is likely eligible for a \$30,000 Community Block Grant. VSW currently has \$175,000 to do a solid waste relocation study. Newtok may qualify for federal disaster relief funds. Agencies should consider building a "Trust Fund" for Newtok to be used for relocation. A documentary of Newtok's situation could be developed to help raise private funds.	DCED	NTC; Denali Commission; AVCP; COE; HSEM.	Two Years	This Activity could be combined with preparation of the Legislative Funding Initiatives (Activity #1), under one Task Force.	\$75,000
8	Topographic Mapping of the Takikchak Site	This involves developing detailed topographic mapping of the Takikchak Site from aerial photography. For planning and preliminary design purposes, 5-foot contours would be developed, and for detailed design, 2-foot contours would be developed for more specific areas where infrastructure elements are to be located.	COE	DCED; AKDOT-PF.	One Year	The development of 5-foot contour mapping would be done in conjunction with preparation of the Community Layout Plan (Activity #6). The development of the more detailed 2-foot contour mapping would be required in time to support engineering design of community infrastructure and utilities (e.g., water, wastewater, landfill, roads, school). This activity would follow Aerial Photography (Activity #4).	\$20,000
9	Comprehensive Housing Needs Study	This involves a comprehensive study of the existing and future housing needs and housing resources in Newtok. The study would include an assessment and evaluation of existing housing and the requirements and funding for relocating the houses that can be safely moved to the new site. The study would likewise assess and evaluate projected housing needs at the new site, and develop an implementation plan for providing for all the housing needs at the new site. The study would also develop a plan for obtaining and implementing the funding required for moving existing housing, and constructing new housing.	NTC	NTC; HUD; AVCP-H; BIA; NAHC; Rural Cap	One Year	This activity would provide valuable information for the Community Layout Plan (Activity #6), the Plan of Subdivision (Activity #13), and the Water, Wastewater, Solid Waste Planning (Activity #19).	\$75,000
10	Wind Data for Airport Siting Analysis	This involves establishing a meteorological station in the vicinity of the Takikchak site to measure and monitor climatological data including wind speed and direction. This will provide a baseline of such information that will be used to plan the location and orientation of the airfield to be developed to serve the relocated Newtok Community.	AKDOT-PF	NTC; FAA; AIDEA/AEA.	Two Years	This activity would follow Takikchak Airport Reconnaissance Study (Activity #3), and is linked to the Detailed Airport Planning and Design (Activity #23).	\$75,000
11	Multiple-year "Physical Relocation Plan/Interim Operating Plan" for Moving to the Takikchak Site.	This involves developing a "Physical Relocation Plan" for the actual physical relocation of the Newtok community to the Takikchak Site, and an "Interim Operating Plan" until the relocation is completed. This activity would initially identify what constitutes the minimum facilities, infrastructure, buildings, and level of services that would need to be established, and how they would be operated at the Takikchak site - and the existing Newtok site - in order for the physical relocation to take place over a reasonable time period. This Plan would also identify a feasible sequence of development and construction activities that would be required to accomplish the complete relocation of the entire Newtok community over a reasonable time frame, while providing adequate and safe services and infrastructure at both the former and new sites. A five-year physical relocation period is suggested as a starting point for discussion. This Plan would also include a determination of which structures, buildings, and other facilities could be moved from the existing community site to the new site, and which would require replacement.	COE	NTC; DCED; AK DOT-PF; Rural CAP; VSW; Denali Commission; AIDEA/AEA; AVCP-H; LKSD; YKHC; HSEM.	One Year	This would involve the NTC requesting the appropriate agencies to have the plan prepared. This activity would link with the Community Layout Plan (Activity #6), the Plan of Subdivision (Activity #13), and the Planning and Design of the Water, Wastewater, and Solid Waste Systems (Activity #19).	\$150,000
12	Materials Borrow Site Planning and Feasibility Report	This involves completing a planning and feasibility study and report for alternative materials borrow sites that would be available for construction needs at the Takikchak site. The study would include an evaluation and costing of haul roads that may be required to deliver the borrow materials.	AKDOT-PF	NTC; COE;	One Year	This follows the preparation of the Community Layout Plan (Activity #6), and the Detailed Geotechnical Investigation (Activity #18).	\$100,000
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13	Plan of Subdivision for the Community at the New Site.	Once the Community-Based Development Plan has been created for the new community area at Takikchak, a Plan of Subdivision would be prepared, showing how the houses and other buildings and facilities would be laid out within the community. This would be integrated with the Real Estate Plan (Activity #22) so that each individual lot would be identified as to ownership, and all rights-of-way and utility easements would be identified as well, and become part of individual deeds.	NTC	DCED; AVCP-H; COE	One Year	This follows the Topographic Mapping (Activity #8), Community Layout Plan (Activity #6), and Detailed Geotechnical Investigation (Activity #18), and would be coordinated with the Comprehensive Housing Needs Study (Activity #9).	\$75,000

14	Barge Landing Planning, Feasibility, and Design Report	This involves the planning, feasibility analysis, and design of a Barge Landing area to serve the Takikchak site. Initial investigations would include bathymetric measurements.	COE, or AK DOT-PF	NTC	One Year	This activity requires that the Community Layout Plan (Activity #6) be underway, or at least that the location for the Barge Landing is confirmed. The initial bathymetric investigations and other data-gathering can commence prior to the Development Plan, provided the anticipated general site area for the new village site is known. This activity would be coordinated with and could be combined with the Small Boat Harbor Planning and Design (Activity #15).	\$300,000
15	Small Boat Harbor Planning, Feasibility, and Design Report	This involves the planning, feasibility analysis, and design of a Small Boat Harbor area to serve the Takikchak site. Initial investigations would include bathymetric measurements, coordinated with Activity #14.	COE	NTC;	One Year	This activity requires that the Community Layout Plan (Activity #6) be underway, or at least that the location for the Small Boat Harbor has been confirmed. The initial bathymetric investigations and other data-gathering can commence prior to the Development Plan, provided the anticipated general site area for the new village site is known. This activity would be coordinated with and could be combined with Barge Landing Planning and Design (Activity #14).	\$300,000
16	Site Parameters for all Utilities and Infrastructure.	This involves developing detailed site requirements and design criteria (Site Parameters) for all utilities and infrastructure identified in the Community Layout Plan (Activity #6). These Site Parameters would be made available to the appropriate agencies to facilitate their planning and feasibility studies, and preliminary and detailed design for these facilities.	NTC	NTC; DCED; COE; AK DOT-PF; Rural CAP; VSW; Denali Commission AIDEA/AEA; AVCP-H; LKSD; YKHC.	One Year	This follows the Topographic Mapping (Activity #8), the Community Layout Plan (Activity #6), and the Detailed Geotechnical Investigation (Activity #18).	\$150,000
17	Planning, Feasibility Study, and Design of School Facilities for the Takikchak Site	This involves undertaking a School Planning and Feasibility Study to determine if it is more feasible to relocate any or all of the existing school facilities from the existing site to the new site, or to develop completely new facilities. A decision would then be made as to the preferred course of action to be taken. Following this, a Design Report would be prepared for the preferred action. The Report would include a plan for funding the relocated/new school facilities, both during the design phase and the construction phase. Construction of the chosen design for the school facilities at the new site would be scheduled to take place during implementation of the Multiple Year Relocation/Interim Operating Plan (Activity #11).	LKSD	NTC	Two Years	This follows the Community Layout Plan (Activity #6).	\$300,000
18	Detailed Geotechnical Investigation of the Takikchak Site	This involves completing a thorough geotechnical investigation of the Takikchak Site. This will provide valuable design data required for design of infrastructure and buildings at the new site.	COE	NTC	One Year	This investigation would occur at the beginning of the preparation of the Community Layout Plan (Activity #6), and would precede any feasibility studies and design involving infrastructure and buildings so that accurate costs can be developed regarding foundations and stability issues.	\$250,000

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19	Water, Wastewater, and Solid Waste Planning, Feasibility, and Design Report	This involves carrying out the required investigations, as well as the planning and feasibility studies necessary to design appropriate water supply and distribution, wastewater collection and disposal, and solid waste collection and disposal systems and facilities to adequately serve the relocated Newtok Community at the Takikchak site. In 2004, COE funded USGS to conduct water quality and flow monitoring in creek at new site that may be potential water source for relocated Newtok. As and if additional sources of water are identified, additional water quality and flow testing may be included during this planning and feasibility phase.	NTC	VSW; LKSD	Two Years	These studies can initially overlap with other planning efforts for the Takikchak site. This activity would use information from the water quality and flow studies being conducted by the USGS. Also, the Community Layout Plan (Activity #6) and the Plan of Subdivision (Activity #13) would be completed prior to this activity.	\$350,000
20	Fuel Storage Tank Planning, Feasibility, and Design Report	This involves conducting a planning and feasibility study of the Fuel Storage Tank requirements to serve the relocated Newtok Community at Takikchak. The Study would include an assessment and evaluation of the potential for relocating any of the existing tanks from the existing village site and constructing new tanks at the new site. Based on the results of the conceptual planning and feasibility study, detailed design of the new tanks would then be completed. The design would include a construction schedule that is integrated with the Multiple Year Relocation/Interim Operating Plan (Activity #11) so that adequate fuel storage is provided to the new community as the relocation to Takikchak proceeds.	AIDEA/AEA	NTC; Denali Commission	One Year	Follows the Community Layout Plan (Activity #6).	\$150,000
21	Electrical Power Facility Planning, Feasibility, and Design Report	This involves conducting a planning and feasibility study of the Electric Power generation and distribution facility and system requirements to serve the relocated Newtok Community at Takikchak. The Study would include an assessment and evaluation of the potential for relocating any of the existing facilities from the existing village site and constructing new facilities at the new site. Based on the results of the conceptual planning and feasibility study, detailed design of the new facilities would be completed. The design would include a construction schedule that is integrated with the Multiple Year Relocation/Interim Operating Plan (Activity #11) so that adequate electrical power is provided to the new community as the relocation to Takikchak proceeds.	AIDEA/AEA	NTC; Denali Commission	One Year	Follows Community Layout Plan (Activity #6).	\$150,000
22	Real Estate Plan for the Takikchak Site	This involves undertaking a Real Estate Survey of the new community site (and other new land holdings) and preparing a comprehensive Real Estate Plan for the New Site. The Plan would include an identification and assessment of the steps necessary to legally enter, survey, subdivide, and place easements, rights-of-way, and caveats on all subdivided parcels, and perform all other real estate transactions necessary for the proper and legal settlement of the Newtok Community at the Takikchak Site. The Plan would also include a "Real Estate Implementation Plan and Schedule" for completing all the necessary actions within a time frame that coincides with other relocation planning. Implementation of all identified activities would then be completed according to the prescribed schedule. A critical step may be the transfer of the Takikchak land to a non-profit entity.	AVCP-H	DCED; NTC	One Year	This follows the Plan of Subdivision (Activity #13). This activity would be coordinated with several other activities, e.g., Comprehensive Housing Needs Study (Activity #9), the Multi-year Physical Relocation/Operation Plan (Activity #11), Materials Borrow Site Study (Activity #12), Barge Landing Planning and Design (Activity #14), Small Boat Harbor Planning and Design (Activity #15), Site Parameters for Utilities and Infrastructure (Activity #16), School Facilities Planning and Design (Activity #17), Fuel Storage Planning and Design (Activity #20), Electrical Power Facilities Planning and Design (Activity #21), and Water, Wastewater, Solid Waste Planning and Design (Activity #19).	\$250,000
23	Detailed Airport Planning, Feasibility, and Design Report	This involves preparing a detailed airport planning, feasibility, and design report for a new airport facility to serve the relocated Newtok Community. The Study and report would result from decisions made by AKDOT-PF, NTC, FAA and others (based on previous studies) as to which alternative is most feasible for the Takikchak Site. This planning, feasibility, and design study would utilize information from all previous relevant studies, including Takikchak Airport Reconnaissance Study (Activity #3), Detailed Geotechnical Investigation (Activity #18), and Community Layout Plan (Activity #6). The FAA has stated that the approach to airport planning and implementation for Newtok should insure that there are not two functioning airports serving Newtok during and following relocation.	AKDOT-PF	NTC; FAA; COE	One Year	This study requires input from the Community Layout Plan (Activity #6) regarding the locations of the landfill and housing, to ensure minimum distances. This activity requires Collection of Wind Data (Activity #10) be completed, and follows the Takikchak Airport Reconnaissance Study (Activity #3). FAA funding for this study is dependent on having a community being established at Takikchak. Minimum development required by the FAA is housing, school, and Post Office.	\$300,000