

ACTION MEMORANDUM FOR THE ASSISTANT ADMINISTRATOR, AFRICA

FROM: AFR/CWR, David Shear

SUBJECT: Request for Funds for the Bureau of Reclamation to continue its assessment and evaluation of existing studies of the Senegal River Basin.

Problem: To obtain your authorization to use \$40,000 under the OMVS Organization, Manpower and Training Project 625-11-790-619 to finance the costs of a four-man team from BuRec to do the field work necessary to complete desk studies previously undertaken on documentation and data available on the Senegal River Basin, and to prepare a long-range work program for continuing assessments which will conform to the priorities of the OMVS medium term plan.

Discussion: In PIO/T 625-907-2-6750022 dated December 4, 1974, \$40,000 was provided for the Bureau of Reclamation to undertake a desk-type review and analysis of existing studies of the Senegal River Basin, specifically, (a) The Senegal Consult Report; (b) the SOGREA Mathemtical Model Report of 1961-1972; (c) the Beyrard Syntheses, and, (d) associated agricultural studies. BuRec completed this desk review in February 1975, finding that in studies completed to date there were some seventeen areas where specific deficiencies were noted. Within these there are eight areas of deficiencies which have a direct bearing upon the medium term plan of the OMVS and the areas of project activities selected by AID in keeping with our Congressional mandate. These are: (1) River Regulation - New streamflow correlations to verify or improve past estimates; reanalysis of water, power, irrigation and navigation criteria. (2) Ground Water - Its location, characteristics and aquifer capabilities. (3) Floods - Reanalysis of reservoir inflow design floods; identification of areas of inundation for various frequency floods. (4) Sedimentation - Quantification and analysis of sediment data in the valley and delta areas. (5) Mathematical Models - A topographic map showing extent of flooding at various flood heights. (6) Land Classification - Irrigation suitability data and analysis concentrating on correlation of land characteristics with economic considerations. (7) Crops and Livestock - Crop yields by varieties, levels of inputs, wet and dry seasons, with and without irrigation. Costs of production for all crops grown. (8) Drainage - Surface and subsurface drainage requirements under various assumptions of planned development.

AFR/CWR has been carrying on discussions with the Bureau of Reclamation as to the best method of proceeding with its analysis concentrating upon areas of immediate interest. The next step appears to be a field study follow-up of the results of the previous desk study, in which a four-man team would undertake a thorough review of all relevant documentation at the OMVS Documentation Center in St. Louis, Senegal, and visit project sites in the basin as well. Along with furthering the analysis previously undertaken, this team will outline a work program for the next year which will address the OMVS medium term program specifically, and estimate the man-month requirements and costs of completing a thorough evaluation of its schedules, scope and capital and technical assistance requirements.

The attached draft PIO/T now in circulation stems from the estimated budget prepared by BuRec based on the aforementioned approach to continuing its analysis. We would like to field this team in September to benefit from some of its initial impressions prior to the second OMVS Donors' Conference in mid-October.

Recommendation: That you approve the use of \$40,000 under the OMVS Organization, Manpower and Training Project 625-11-790-619 for a field study by a Bureau of Reclamation Team in continuation of its previous desk analysis of studies needed for the OMVS medium term plan.

Approved/s/ Donald S. Brown

Disapproved _____

Date AUG 25 1975

Enclosures: a/s

AFR/CWR:HPetrequin:gbm:08-12-75

Clearances:

AFR/CWR:IRosenthal _____
AFR/CWR:JAPatterson _____
AFR/DS:LHobson _____
AFR/DP:RHuesmann _____
AA/AFR:DBrown _____