BABAYAN, Kh.P.; BRYADZHYAN, N.G.; MAMIDZHANYAN, E.A.; GRIGOROV, N.L.; TRET'YAKOVA, Ch.A.; SHESTOPEROV, V.Ya.

Nuclear-active particles in young air showers. Zhur. eksper. i teor. fiz. 46 no.1:110-122 Ja 64. (MIRA 17:2)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta i Institut fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR, Yerevan.

ACCESSION NR: API,033062

10 cm in diameter. The fifth and sixth series were placed beneath a lead shield. It was found that the frequency of the young showers increased by a factor of li-16 from sea level to the mountain top. This indicates that μ -mesons play an insignificant role in the formation of young showers. The contribution of μ -mesons in these events at a height of 3250 m does not exceed 1% of the total of the young shower. At sea level, the contribution may reach 15%. The attenuation length in the lower layers of the atmosphere of nucleons with energies of E>2·10¹² ev is 109 ± 8 g/cm². When the interaction range of nucleons in the atmosphere is 80 g/cm², an attenuation length of 109 g/cm² corresponds to an average inelasticity coefficient of the nucleons of $\overline{K} = 0.5$. When the interaction range is 90 g/cm², K = 0.6. Orig. art. has: 3 formulas.

ASSOCIATION: Institut fiziki GKAE (Yerevan) NIIYaF; MGU (Institute of Physics GKAE (Yerevan) NIIYaF, MGU); Yerevanskiy gosudarstvenny*y universitat(Yerevan State University)

SUBMITTED: 00

DATE ACQ: 07May64

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SUB CODE: ES, GP Card 2/2 NO REF SOV: 003

OTHER: 000

ACCESSION NR: API,033062

\$/0252/64/038/002/0101/0104

AUTHORS: Babayan, Kh. P.; Grigorov, N. L.; Mamidzhanyan, E. A.; Shestoperov, V. Ya.

TITLE: The height behavior of nucleons of high energy in the atmosphere (Presented by M. L. Ter-Mikayelyan, corresponding member of the AN Armyanskoy SSR on 25 September 1963)

SOURCE: AN ArmSSR. Doklady*, v. 38, no. 2, 1964, 101-104

TOPIC TAGS: nucleon, atmosphere, attenuation length, mu meson, interaction range

ABSTRACT: When a nucleon of high energy interacts with a substance, the definite attenuation length of the nucleon in the substance has an intrinsic value. This paper is devoted to a determination of this value in the atmosphere. Computations show that deep in the atmosphere the attenuation length of nuclear-active components is determined only by the absorption of nucleon components. The authors have used the height behavior of young atmospheric showers for this purpose. Measurements were made at heights of 200 and 3250 m. The detecting apparatus had a working area of 10 m² and consisted of six series of ionization chambers, each 330 cm long and Card 1/2

ACCESSION NR: APLO26380 3

their energy to primary nuclear-active particles. The investigation of nuclear-active components of NAS indicates that at $E_0 > 1.7 \times 10^{12}$ ev nuclear-active particle energies there exists (with 0.11 < w < 0.27 probability) an almost fully inelastic (E_0) interaction with light-atomic weight nuclei 70% π^0 - meson energy transfer (to "primary" particles) in a single event. These interactions introduce more than a 45% contribution to the energy loss in π^0 - meson formation. Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Yerevanskiy institut fiziki GKAE (Yerevan Institute of Physics); NIIYAF MAU; Yerevanskiy gosudarstvennyky universitet (Yerevan State University)

SUBMITTED: 00

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: PH

NO REF SOV: 004

OTHER: 000

Card 2/2

ACCESSION NR: AP4026380

5/0252/64/038/001/0009/0015

AUTHORS: Babayan, Kh. P.; Grigorov, N. L.; Mamidzhanyan, E. A.; Shestoperov, V. Ya.

TITLE: Interaction of nuclear-active high-energy particles with light-atomic weight nuclei, characterized by high degree of inelasticity (Presented by corresponding-member G. M. Garibyan of the Academy of Science, Armenian SSR)

SOURCE: AN ArmSSR. Doklady*, v. 38, no. 1, 1964, 9-15

TOPIC TAGS: electron-photon atmospheric shower, ionization chamber, Torica, nuclear-active particles, inelastic interaction

ABSTRACT: The so-called "new electron-photon atmospheric showers" (NAS) have been studied at a 3200-m altitude above sea level. The equipment was spread over an area of 10 m² and consisted of 6 ionization chambers, lead and graphite separation filters, and two upper series chambers for measuring the electron-photon component of NAS. It is assumed that "new showers" are generated during interactions where a certain number of Π^0 -mesons ($\langle \cdot \rangle$) transmit the greater part of

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Investigation of the ...

S/048/62/026/005/002/022 B102/B104

(4) at sea level, the muon contribution is $\sqrt{70\%}$ ($\sim 10^3$ particles) and $\sim 50\%$ ($\sim 2\cdot 10^4$ particles). The burst spectrum was found to depend greatly on the area of the measuring arrangement. With $2\cdot 10^3 - 2\cdot 10^5$ particles, γ goes over from 1.37 \pm 0.02 for (330 cm)² to 1.99 \pm 0.05 for 10·330 cm². The spectrum of bursts with a π^0 energy transfer of $3\cdot 10^{11} - 10^{13}$ ev agrees with that of nuclear-active particles, and exhibits no "breaks". When particles with $E > 10^{12}$ ev interact with light nuclei in about 10% of the events, the interaction is completely inelastic, and the π^0 energy transfer amounts to 60-80% of the primary-particle energy. Such interactions obviously play a significant role in the formation of extensive air showers with at least 10^4-10^5 particles. There are 8 figures and 7

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Investigation of the ...

S/048/62/026/005/002/022 B102/B104

ionization bursts in the filter of the arrangement, for the altitude dependence of the burst frequency, and for the burst spectrum and its dependence on the size of the arrangement; the mechanism of local $\pi^{\rm O}$ generation by single nuclear-active particles was investigated. The bursts observed were grouped according to their intensity I, i.e., according to the number of relativistic particles involved; for each group, the numbers of ionization and "structuralized" bursts were determined for rows I-IV. The spectrum of ionization bursts can be described by N(>I) - AI -Y for all chambers. The index of the integral spectrum for 2.103 4142.105 equals 1.37 \pm 0.02. With an area of \sim 0.6 m² it was found that \sim 20% of the bursts were "structuralized" for $1\cdot 10^3 \le 1 \le 5\cdot 10^3$. At $1>1\cdot 10^4$ and $10~\text{m}^2$ 50% of the bursts (at sea level) and 75% (on the mountains) have a structure. An analysis of the course of the bursts with the altitude has shown that: (1) the integral spectrum of muon-induced bursts with 3.103 - 3.104 particles has an exponent of y = 2.22 ± 0.14; (2) for a burst of equal intensity, induced by a single nuclear-active particle, r = 1.98 ± 0.09; (3) at 3200 m, the muon contribution to single heavy bursts is small (15% of all bursts with ~103 particles, and ~4% of those with ~2.104 particles; Card 2/6

MAMIDZHANYAN, E.A \$/048/62/026/005/002/022 3,2410 (2205, 2705, 2805) AUTHORS: Babayan, Kh. P., Babetski, Ya. S., Boyadzhyan, N. C., Buya, Z. A., Grigorov, N. L., Loskevich, Ye. S., Mamidahanyan, E. A., Massal'skiy, Ye. I., Oles', A. A., Tret'yakova, Ch. A., and Shestoperov, V. Ya. TITLE: Investigation of the interaction of high-energy particles with atomic nuclei on mountains PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 5, 1962, 558 - 571 TEXT: Ionization bursts caused by the electron-photon component of a shower of cosmic-ray particles were studied with an array of ionization chambers (Fig. 1) at the mountain station (3200 m) of the Akademiya nauk Armyanskoy SSR (Academy of Sciences Armyanskaya SSR). The array consisted of six rows of ionization chambers separated by layers of lead and graphite, and covered an area of 10 m². Owing to this large area, heavy bursts with a total energy of locally generated mo mesons amounting to ~10 13 ev could be photographed. The data obtained were analyzed for

MAMICHEVA, L.M., kand, ekonomicheskikh nauk Norms of labor consumption for the determination of the cost of experimental work. Trudy MAI no.151185-91 '62. (MIRA 15:12)

(Airplanes-Gost of construction) maintenance of gliders and engines are discussed and periods of flights between repairs are indicated. New, revised regulations are also used for maintenance of Ya-12, I4-2, An-2 and I1-14 aircraft. The aircraft "Morava" is also covered by these regulations.

SUB CODE: Ol/ SUEM DATE: None

ACC NR. AP6016736 (A) SOURCE CODE: UR/0084/66/000/001/0022/0023

AUTHOR: Smirnov, N. (Candidate of technical sciences); Mamichev, S. (Engineer)

ORG: None

TITLE: New progress made in maintenance of aircraft 10 // B

SOURCE: Grazhdanskaya aviatsiya, no. 1, 1966, 22-23

TOPIC TAGS: Acivil aviation, transport aircraft / An-2 transport aircraft, An-10 transport aircraft, An-24 transport aircraft, II-14 transport aircraft, II-18 transport aircraft, II-18 transport aircraft, II-19 transport aircraft, III-19 transport aircraft, III-19 transport aircraft, III-19 transport aircraft, III-19 transport aircrafts are briefly reviewed including the regulations were conducted in II-19 and An-10 aircrafts. Additional investigations were conducted in 1964 and 1965 and new regulations for the above types of aircraft were adopted extending the flight periods from 25, 100 and 500 hours to 50, 200 and 1000 hours. A new period of 2500 to 3000 hours is also provided in the new regulations approximately lying in the middle of the overhaul period of 4000 to 5000 hours. It is mentioned that similar regulations are in preparation for II-124 and An-2 aircrafts. The new regulations define more accurately the duties and responsibilities of engineers and foremen supervising the maintenance work. Some other changes (unification and simplification of regulations, new control sheets, etc.) are also mentioned. New specifications regulating the

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MAMICHEV, S., inzh. The stage method. Grazhd. av. 21 no. 12:21 D '64. (MIRA 18:12)

MAMICHEV, R. V., dotsent (Vladivostok, ul. 25 Oktyabrya, d. 61, kv. 24); SVIDOVSKAYA, R. P.

Subarachnoid hemorrhages in stenosis of the aortic isthmus. Vest. khir. no.4:96-98 162. (MIRA 15:4)

1. Iz kliniki nervnykh bolezney (zav. - dots. R. V. Mamichev) Vladivostokskogo meditsinskogo instituta.

(AORTA-DISEASES) (BRAIN-HEMORRHAGE)

MAMICHEV, R.V., dotsent (Vladivostok, ul. 25 Oktyabrya, d.61, kv.24)

Tumors of the brain and associated morphological changes in ganglia of the solar plexus. Vest.khir. 86 no.2841-47 161.

(MIRA 14:2)

1. Iz kliniki mervnykh bolezney (zav. - dotsent R.V. Mamichev)
Vladivostokskogo meditsinskogo instituta i otdela morfologii nervnoy sistemy (zav. - prof. N.G. Kolosov) Instituta fiziologii
im. I.P. Pavlova.

(SOLAR PLEXUS)

(BRAIN-TUMORS)

MAMICHEV, R.V., kand.med.nauk (Stalingrad, ul. Mira, d. 13, kv. 166)

Brain tumor simulating disease of the abdominal cavity. Vest. khir. 81 no.12:70-75 D '58. (MIRA 12:2)

1. Iz kliniki nervnykh bolezney (zav. - prof. V.A. Yershov) Stalingradskogo meditsinskogo instituta i otdela morfologii nervnoy sistemy (zav. - prof. N.G. Kolosov) Instituta fiziologii imeni I.P. Pavlova AN SSSR.

(BRAIN NEOPLASMS, differ. diag.

acute abdom. sympt. caused by involvement of autonomic ganglia (Rus))

(ABDOMEN, ACUTE, differ. diag.

brain neoplasms, involvement of autonomic ganglia causing sympt. of acute abdom. (Rus))

06/23/11: CIA-RDP86-00513R001032000004-6 MAMICHEV. R.V., kandidat meditsinskikh nauk (Stalingrad) Infantile paralysis and its control. Fel'd. i akush. 22 no.2:8-10 (MLRA 10:5) I 157 (POLIOMYELITIS)

CIA-RDP86-00513R001032000004-6

MRMICHERRY

MAMICHEV, R.V.

Diagnostic significance of the cutanegalvanic potential and the psychogalvanic reflex in lumbosacral radiculitis and in radiculalgias. Zhur.nevr. i psikh.55 no.10:734-735 '55.

1. Kafedry nervmykh bolezney (zav.prof. V.A.Yershov) Stalingradskogo meditsinskogo instituta.

(NEURALGIA, diagnosis,

psycho-galvanic skin potentials & psycho-galvanic reflexes in radiculalgias)

(NERVES ENDINGS, diseases,

radiculitis & radiculalgias, diag. value of psychogalvanic skin potentials & of psycho-galvanic reflexes)

(REFLEX, PSYCHOGALVANIC, in radiculitis & radiculalgias, diag. value of psychogalvanic skin potentials & of psycho-galvanic reflexes) MANICHEV, R.V. (Stalingrad)

Objective method of diagnosing sciatica. Klin. med. 32 no.7:47-51
J. '54.

1. Iz kafedry normal'noy fiziologii (zav.-prof. V.J.Shirokiy i kafedry nervnykh belesney (zav.-prof. V.A.Yershov) Stalingradkogo meditsinskogo instituta.

(SCIATIGA, diagnosis)

MAMICHEV, M.

Service is improving. Sov.torg. 35 no.7:35 Jl '62.

(MIRA 15:11)

1. Instruktor gorodskogo komitet Kommunisticheskoy partii Sovetskogo Soyuza, g. Shakhty.

(Shakhty--Retail trade)

MAMEYEV, V.P.; SANDAKHCHIYEV, L.S.

Synthesis of dihaloid-substituted A-tyrosines. Izv.Sib;otd.
AN SSSR no.1:68-77 '62. (MIRA 15:3)

1. Institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR, Novosibirsk.

(Myrosine)

MAMEYEV, V.P.; SEDOVA, V.F.

Production of 3-(phtalimidomethyl)indole by Fischer's reaction. Izv. Sib. otd. AN SSSR no.10:142-144 '61. (MIRA 14:12)

1. Institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Fischer indole synthesis)

BROFMAN, A.V., dotsent; MAMETOV, N.D.

Hemorrhage from the aorta following poisoning with caustic soda. Zhur. ush., nos. i gorl. bol. 21 no.5:79-81 S-0 '61. (MIRA 15:1)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - prof. O.M.Mukoseyeva) Karagandinskogo meditsinskogo instituta. (HEMORRHAGE) (SODIUM HYDROXIDE_TOXICOLOGY) MAMET, Ovsey Pikhusovich; DYMSHITS, Ye.S., inzh., red.; SERGEYEV, V.M., inzh., red. izd-wa; SOKOLOVA, T.F., tekhn. red.

[Brief marual for machinery designers] Kratkii spravochnik konstruktora-stankostroitelia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1961. 358 p.

(Machanical engineering) (Machinery--Design)

(Machanical engineering) (Machinery--Design)

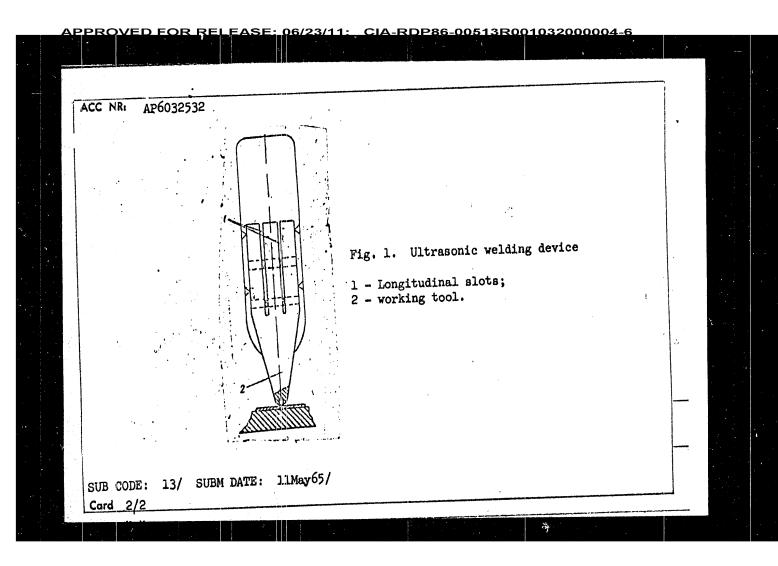
MAMET, I.S., inzh.-podpolkovnik We too have our suggestions. Vest.Vozd.F1. no.12:48-49 D '60. (MIRA 14:5) (Airplanes-Maintenance and repair)

CIA-RDP86-00513R001032000004-6 MAMET, I.S., inzh.-podpolkovnik What was accomplished through planning. Vest.Vozd.F1.
no.6:71-74 Je '60. (MIRA 13:7)
(Airplanes-Maintenance and repair)

MAMESHIN, Ye.

Building the cities of the Khabarovsk Territory. Zhil stroi. nc.6:16-18 Je '61. (MIRA 14:7)

1. Glavnyy arkhitektor Khabarovskogo Kraya.
(Khabarovsk Territory-Construction industry)



<u> APPROVED FOR RELFASE; 06/23/11:__CIA-RDP86-00513R001032000004-6</u>

ACC NR: AP6032532

SOURCE CODE: UR/0413/66/000/017/0132/0132

INVENTOR: Stamov-Vitkovskiy, A. V.; Ginin, V. N.; Mamet, B. T.; Bondarenko, V. A.

ORG: none

TITLE: Device for ultrasonic welding. Class 49, No. 185673

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 132

TOPIC TAGS: ultrasonic welding, welding desire EQUIPMENT

ABSTRACT: This Author Certificate introduces an ultrasonic welding device consisting of vibrators and a transverse oscillation transformer connected with the working tool. To increase the oscillation amplitude of the working tool, the transformer is provided with longitudinal slots and the working tool forms one piece with the transformer (see Fig. 1). Orig. art. has: 1 figure.

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IDC: 621.791.16.03

MAMET, A.F., doktor tekhn. nauk, prof.; ALEYNIKOV, G.I., kand. tekhn. nauk; TARATUTA, V.A., inzh.

Prentert cleanirg'of an 300Mm. power block. Teplovnergetika
12 no.7:26-33 Jl '65. (Mil:A 12:7)

1. Moskovskoye otdeleniye TSentral'nogo kotleturblenogo instituta im. Polzunova.

AKOL'ZIN, P.A.; GERASIMOV, V.V.; KASPEROVICH, A.I.; MAMET, A.P.;

ZIN, P.A.; GERASIMOV, V.V.; KASPEROVICH, A.I.; MAMET, A.P.; MAN'KINA, N.N.; MARGULOVA, T.Kh.; MARTYNOVA, O.I.; MIROPOL'SKIY, Z.L.; Prinimali uchastiye: DYATLOVA, N.M.; BIKHMAN, B.I.; STYRINKOVICH, M.A., retsenzent; KOSTRIKIN, Yu.M., red.

[Water system f thermal electric power plants (ordinary and atomic)] Vodnyi rezhim teplovykh elektrostantsii (obychnykh i atomnykh). [By] P.A.Akol'zin i dr. Moskva, Energiia, 1965. 382 p. (MIRA 18:3)

GURVICH, Semen Mirkovich; CHERNYAVSKIY, V.M., inzh., retsenzent; MAMEI, A.P., prof., red.; SINEL'NIKOVA, L.N., red. [Water-treatment plant technician] Apparatshik vodepodegotovki. Moskva, Energiia, 1964. 279 p. (MIRA 18:2)

CIA-RDP86-00513R001032000004-6 MAMET, A.P., doktor tekhn. nauk; STASHKO, R.P., inzh. New methods for removing nitrites and nitrates from boiler feedwater. Teploenergetika 11 no.7:55-60 Jl 164. (MIRA 17:8) 1. Moskovskoye otdeleniye TSentral'nogo kotloturbirmogo instituta.

MAMET, A.P., doktor tekhn.nauk; NOVI, Yu.O., kand.tekhn.nauk; TARATUTA, V.A., inzh. Water cycle norms of once-through type boilers. Teploenergetika 11 no. 1:91-92 Ja '64. (MIRA 17:5)

MAMET, A.P.

Chemical cleaning of boilers in foreign electric power plants. Vodopod., vod. rezh. i khimkont. na parosil. ust. no.l:51-55 *6/.

Water treating equipment in foreign thermal electric power plants.

Ibid.:109-112 (MIRA 18:2)

l. Moskovskoye otdeleniye TSentral'nogo nauchno-issledovatel'skogo i proyekino-konstruktorskogo kotloturbinnogo instituta im. Polzunova.

MAMET, A.P.

Corrosion of the equipment of foreign thermal electric power plants. Vodopod., vod. rezh. i khimkont. na parosil. ust. no.1:41-42 '64. (MIRA 18:2)

1. Moskovskoye otdeleniye TSentral'nogo nauchno-issledovatel'skogo i proyektno-konstruktorskogo kotloturbinnogo instituta imeni I.I. Polzunova.

BELAN, Fedor Ivanovich; MAMET, A.P., doktor tekhn. nauk, retsenzent; GURVICH, S.M., inzh., red.; BUL'DYAYEV, N.A., tekhn. red. [Feed water purification] Vodopodgotovka. Izd.2., perer.
Moskva, Gosenergoizdat, 1963. 319 p. (MIRA 16:11
(Feed water purification) (MIRA 16:11)

MAMET A.P., doktor tekhn.nauk; NOVI, Yu.O., kand.tekhn.nauk; TARATUTA, V.A., inzh. Chemical purification of onte-through type boilers using trilon B. Elek.sta. 34 no.2:12-16 F '63. (MIRA 16:4) (Boilers-Cleaning)

KONSTANTINOV, B.A., inzh.; EPFEL BAUM, R.V.; MAMET, A.P., doktor tekhn.nauk

Problem concerning the automation of water treating systems.

Teploenergetika 10 no.4:52-55 Ap '63. (MIRA 16:3)

1. Moskovskoye otdeleniye TSentral'nogo kotloturbinnogo instituta. (Feed-water purification)

CIA-RDP86-00513R001032000004-6 GURVICH, S. M., inzh.; MAMET, A. P., doktor tekhn. nauk New water heating equipment for electric power plants. Teplo-energetika 10 no.3:87-92 Mr '63. (MIRA 16:4) (Water heaters) (Electric power plants)

MAMET, A.P. Prevention of the bearing-out of iron oxide from steel wool filled filters. Energetik 10 no.2:37 F *62. (MIRA 15:2) (Feed water purification) (Filters and filtration) MAMET, A.P., doktor tekhn.nauk; VIASOVA, Ye.F., inzh.

Studying the dissolving of boiler incrustations by means of complex-forming reagents. Teplcenergetika 9 no.11:69-74 N '62. (MIRA 15:10)

1. Moskovskoye otdeleniye TSentral'nogo nauchno-issledovatel'skogo kotloturbinnogo instituta imeni I.I.Polzunova. (Boilers—Incrustations)

MAMET, A.P., doktor tekhn.nauk Concerning the relative alkalinity of boiler water. Elek.sta. 32 no.4:34-36 Ap '61. (MIRA 14:7) no.4:34-36 Ap '61. (Feed water) (Boilers-Corrosion)

MAMET, A.P. Use of steel filings in the deoxidation of water. Energetik 9 no.8:34-35 Ag '61. (MIRA 14:8) (Feed-water purification) GURVICH, Semem Markovich; MAMET, A.P., doktor tekhn. nauk, retsenzent; KOMAROV, L.P., red.; VORONIN, K.P., tekhn. red.

[Water treatment] Vodopodgotovka. Moskva, Gos. emerg. izd-vo, 1961. 239 p. (MIRA 15:2)

(Feed-water purification)

APPROVED FOR RELEASE; 06/23/11: CIA-RDP86-00513R001032000004-6

MAMET, A.P., doktor tekhn.nauk; SHKROB, M.S., doktor tekhn.nauk Water norms for low-pressure boilers. Emergetik 8 no. 12:25-28 D '60. (MIRA 13:12 (MIRA 13:12) (Boilers) (Feed water)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000004-6 MAMET, A.P., doktor tekhn.nauk; GURYICH, S.M., inzh. Selecting a water treatment system for small enterprises. Teploenergetika no.4:84-85 Ap 160. (MIRA 13:8) (Feed-water purification)

MAGNET A. P. A. P. S. Androyer, J. E. Agairtain, G. M. Gurrich, A. A. Edy, Tr. M. Sertrick, J. I. Echaler, A. P. Kenst, Tr. G. N. Gurrich, A. A. Edy, Tr. M. Sertrick, J. I. Echaler, A. P. Kenst, Tr. G. Nort, M. M. Sendal, L. D. Rodybulle **Pervocall Minista cargatila. Lea 16 Serendony materially chabeles **Pervocall Minista cargatila. Lea 16 Serendony material. **Pervocall Minista Serendon Serendony Ministal Ministal Serendon Ministal Serendon

8 (6)

SOV/91-59-11-4/27

AUTHORS:

Gurvich, S.M., Engineer, Kagan, D.Ya., Candidate of

Technical Sciences, and Mamet, A.P., Doctor of Techni-

cal Sciences

TITLE:

Causes of Boiler Corrosion

PERIODICAL: Energetik, 1959, Nr 11, pp 10-13 (USSR)

ABSTRACT:

The authors explain the possible causes of a case of boiler corrosion at an unidentified plant. The corrosion was detected in a DKV-10-13 boiler. It was caused by an interaction of several factors: large amounts of ammonium sulfate were added to boiler water in the feed tanks; the regeneration of ammonium-sodium-cationite filters was not performed properly; no deaeration of the boiler water; improper washing of the boiler with diluted acids. They state that it is very difficult to estimate the degree of the influence of the one or the other factor because of the lack of sufficiently detailed data. In their conclusions the authors give some general instructions for proces-

Card 1/1

sing boiler water.

MAMET, A.P., doktor tekhn. nauk; STASHKO, R.P., ingh.

Chemical demineralization of the condensate. Teploenergetika 6 no.12:71-77 D '59. (MIRA 13:3)

1.Moskovskoye otdeleniye TSentral'nogo nauchno-issledovatel'skogo kotloturbinnogo instituta. (Feed-water purification)

Experience in the preparation of magnesite sorbent and in the SOV/96-58-10-10/25 de-silication of feed-water for high-pressure boilers.

note that this article and the next one by Kvyatkovskiy and Baulina are published as a useful basis for considering this method of treatment, although the editors disagree with a number of points in the article. There are 6 figures and 2 tables.

ASSOCIATION: Tsentroenergochermet

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Experience in the preparation of magnesite sorbent and in the $\frac{50V}{96-58-10-10/25}$ de-silication of feed-water for high-pressure boilers.

filtration on the effectiveness of purification. It will be seen from the graph in Fig. 5. that as the rate is increased from 4 to 10.7 m/hr the silica content increases by 0.51 mg/litre. The results plotted in Fig.6. show that by reducing the hydrated alkalinity of the water delivered to the sorbent filters, their effectiveness is improved. However, tests could not be made at pH values below 8.5 because coagulation of the water by the iron sulphate was impaired. Thus the best condition for removing silica from water by magnesite sorbent is the carbonate condition of liming with which the pH value of the water is 8.5 - 9. In six months of operation the magnesite sorbent absorbed 572 kg of silica, a third of the theoretical capacity. The use of magnesite sorbent simplified the process of water treatment and reduced the silica content of the feed water from its former value of 0.8 - 1.3 mg/litre to 0.25 - 0.5 mg/litre. Boiler blow-down was correspondingly reduced. There is an editorial

Card 3/4

Experience in the preparation of magnesite sorbent and in the SOV/96-58-10-10/25 de-silication of feed-water for high-pressure boilers.

available at the power station, is sketched in Fig.1., and the procedure used to manufacture the sorbent is described. The chemical analysis of the sorbent was: 35.5% MgO; 22% MgCl2; 1.2% CaCl2; 6.8% FeCl3, the remainder being mainly water. Each filter was loaded with 6.8 tons of sorbent, to the heights given in Fig.2. Before the filters were used, excess chloride was washed out of the sorbent; a graph of the washing process appears in Fig. 3. Full-scale operation of the filters commenced in March, 1957 and the results of six months operation are plotted in Fig. 4. which shows that the silica content of the treated water has gradually risen to about 1.4 mg/litre SiO2. The increase has probably resulted from contamination of the sorbent with organic substances and iron oxides. The chemical analysis of the sorbent after 21 months operation is given in Table.2; although the chemical composition has altered, the mechanical strength is unchanged. There is a considerable increase in the silica and iron-oxide contents of the sorbent. The silica content of the water was somewhat higher than it should be, and attempts to improve matters by raising the treating temperature by 5°C to 42°C were ineffective. Tests were made of the influence of rate of

Card 2/4

* AUTHOR *

Mamet, A.P. (Dr.Tech.Sci.) Nikolayev, A.V. (Engineer)

SOV/98-58-10-10/25

TITLE:

Experience in the preparation of magnesite sorbent and in the de-silication of feed-water for high-pressure boilers. (Opyt prigotovleniya magnezitovogo sorbenta i obeskremnivaniya vody dlya pitaniya kotlov vysokogo davleniya)

PERIODICAL:

Teploenergetika, 1958, No.10. pp. 42-46 (USSR)

ABSTRACT 8

In Soviet power stations extensive use is made of magnesia treatment for the de-silication of water. As various practical difficulties are encountered, the VODGEO Institute developed under laboratory conditions a method of de-silicating water by filtration through a layer of magnesite sorbent prepared from magnesium oxide and hydrochloric acid. A method of preparing the sorbent on a large scale was developed and tried in practice. The Heat and Electric Power Station of the Cherepovets Metallurgical Works used to de-silicate water by means of caustic magnesite. The method proved unsatisfactory for ten months in the year and it was periodically necessary to carry out lime treatment under carbonate-bicarbonate conditions. Even so, boiler blow-down was excessive. Thirteen tons of sorbent were them made by the VODGEO formula and charged into two mechanical filters of 3,000 mm diameter. The raw materials from which the sorbent was made were technical hydrochloric acid of specific gravity 1.19 and 80% caustic magnesite. The equipment, which was

Card 1/4

MAMET, A.P.

AUTHORS:

Gurvich, S.M.; Mamet, A.P.

SOV-91-58-9-28/29

TITLE:

Ammonium-Sodium Cationizing (Ob ammoniynatriy-kationirovanii)

PERIODICAL:

Energetik, 1958, Nr 9, pp 39-40 (USSR)

ABSTRACT:

The authors deal with some problems of ammonium-sodium cationizing raised by a reader's query. There is 1 Soviet

reference.

1. Ammonium—Applications 2. Sodium—Applications

Card 1/1

AUTHOR 8

Mamet, A.F. Dr. Tech. Sci.

S0V/96-58-7-22/22

TITLES

About P.A. Akol'zin's book 'The Corrosion of Metal in Steam Boilers (O knige P.A. Akol'zina 'Korroziya metalla parovykh kotlov.) (Gosenergooizdat, 1957. 224 pages)

PERIODICAL:

Teploenergetika, 1958.

No.7, pp. 94-96 (USSR)

ABSTRACT 8

This is an important monograph that will undoubtedly be useful to workers in research and design organisations and also to the operating staff of power stations and other boiler houses. A major achievement of the work is an analysis of corrosion processes based on numerous electro-chemical measurements made under actual working conditions. A number of defects of the book are described in detail, one of the comments being contradicted by the editor of the journal, but it is pointed out that the defects mentioned do not significantly detract from the value of the book as a whole.

1. Metals - Corrosion 2. Boilers - Corrosion

Card 1/1 USCOMM-DC-55501

AUTHOR:

Mamet, A.P.

91-58-5-31/35

TITLE:

On the Application of the Ionization of Water by Ammonium-Sodium Cations and the Ammonium Corrosion of Brass (O primenenii ammoniy-natriykationirovaniya vody i ammiachnoy korrozii latuni)

PERIODICAL:

Energetik, 1958, Nr 5, pp 36-37 (USSR)

ABSTRACT:

Corrosion of brass and bronze parts in boilers working with ammonium-sodium cationization is possible only in the presence of oxygen. In water with oxygen content, the minimal ammonium content causing corrosion is at 20°C 200 - 300 mg/l, at 80°C 50 - 100 mg/l. Under normal conditions the cationization of water causes no corrosion of brass or bronze parts. The content of ammonium in the steam should not exceed 3 mg/kg, because at condensation dangerous values may be reached. In such cases it is also important that the boilers work with an excess of pressure to prevent condensation.

AVAILABLE:

Library of Congress

Card 1/1

1. Water Ionization

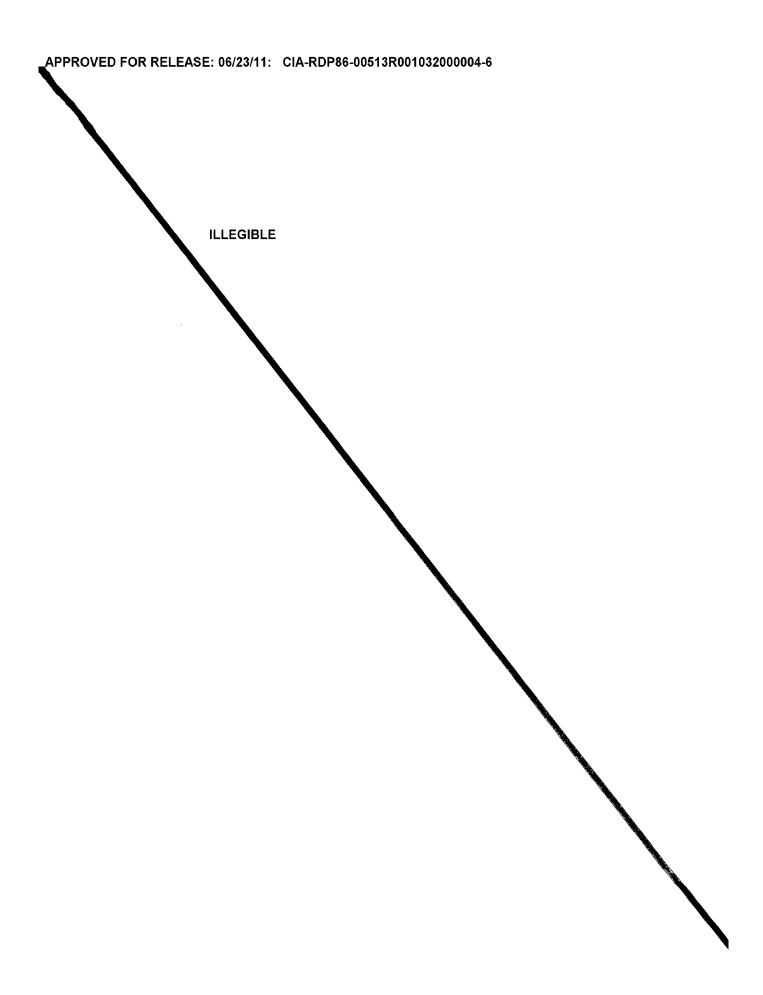
CIA-RDP86-00513R001032000004-6 MANUEL A.P. doktor . tekhn. nauk Problem of protecting boilers for high and super pressures and temperatures against fouling by oxides of iron and other metals.

Energomashinostroenie 4 no.2:5-8 F '58. (MIRA 11:4) (MIRA 11:4) (Boilers--Incrustations)

APPROVED FOR RELEASE; 06/23/11: CIA-RDP86-00513R001032000004-6 MAMET, A.P., doktor tekhn, nauk. "Metal corrosion in boilers" by P.A. Akol'zin. Reviewed by A.P.

Mamet. Teploenergetika 5 no.7:94-96 Jl '58. (MIRA 11:9)

(Boilers) (Corrosion and anticorrosives)



SOV/91-58-2-9/31

On the Work of an Ammonium-Sodium-Cationite Installation

cationation, one obtains a comparatively higher exchange capacity of the sulphocarbon (370 instead of 325 g-eq./cu m) and a somewhat lower specific consumption of the reagents (170 instead of 200 g/g-eq.). There is 1 table.

Card 3/3

SOV/91-58-2-9/31

On the Work of an Ammonium-Sodium-Cationite Installation

residue, mean hardness 6.2 mg-eq./l (caused almost exclusively by carbonates), 2.i mg/l of chlorides and some traces of sulphates. The installation has 2 cationite filters, 700 mm in diameter each, a 0.6cu m container for regeneration solution, a centrifugal fan for blowing the solution towards the filters and a 600 mm diameter salt dissolver (needed in cases when sodium-cationation is necessary because of eventual lack of ammonium reagents). The experiments of the plants are described, and the results shown in form of a table. Experiments showed that by applying simultaneous ammonium-sodium

Card 2/3

SOV/91-58-2-9/31

AUTHORS:

Mamet, A.P., Doctor of Technical Sciences,

and Kabanova, A.I., and Semenova N.T.,

Engineers

TITLE:

On the Work of an Ammonium-Sodium-Cationite

Installation (Rabota ammoniy-natriy-kationi-

tovoy ustanovki)

PERIODICAL:

Energetik, 1958, Nr 2, p 15 (USSR)

ABSTRACT:

The plant mentioned in the article has a heating boiler room equipped with a water-softening carionite installation working along the system of simultaneous ammonium-sodium cationation. The system has lowered the alkali and salt contents of the processed water to such a degree that the blow-thru process could be dropped by 7 or 8%, even

Card 1/3

though condensed water is not recovered. The processed water had 322 mg/l mineral

Water Regime of the Open-Hearth Furnace Evaporation Cooling System, adequate facilities for continuous blowing. In order to keep the quality of the steam on an equal level, steam seperators must be provided for the equal distribution of the water-steam mixture, and particularly for the drawing off of steam over the entire length of the separator. It is necessary to introduce a chemical control which should be automatized to the greatest possible extent. It would be useful to set up saline-content-meters, in order to keep that of the feed water under control. (2 illustrations and 2 tables).

(According to international usage, hardness is expressed in mval/liter = molar weight of a substance per liter.

1 mval/liter = 2,8 dH (German degrees of hardness). Russian has defined as a new unit according to GOST 6055-51 for pronounced hardness: mg equivalent/liter for small hardness mkg equivalent/liter (micrograms)

The Russian mg equivalent corresponds to the musl/liter (high small liter)

The Russian mg equivalent corresponds to the mval/liter (Reviewer's PRESENTED BY:

PRESENTED BY: SUBMITTED:

AVAILABLE: Library of Congress. Card 2/2

06/23/11: CIA-RDP86-00513R001032000004-6

AUTHOR:

MAMET, A.P. Dr. Tech.Sc., and NIKOLAYEV, A.V. and

PA ~ 2405

KABANOVA, A.I., engineers. Tsentroenergochermet.

TITLE:

Water Regime of the Open-Hearth Furnace Evaporation Cooling System. (Vodnyy rezhim system isparitel'nogo okhlazhdeniya martenovskikh

pechey, Russian).

PERIODICAL:

Stal'. 1957, Vol 17, Nr 2, pp 173 - 178 (U.S.S.R.) Reviewed: 5 / 1957

Received: 5 / 1957

ABSTRACT:

The investigation was carried out in two open-hearth furnaces of different plants. The technical requirements can be summarized as follows: With respect to feed water: Practically full transparency (not less than 150 cm crosswise), a hardness of not more than 0,1 mg/liter, an oxygen content not exceeding o,1 mg/liter, an overall saline content of up to 10 %, and the absence of free carbon dioxide, if the water is heated above 25 - 30° C.

With respect to evaporating water: The water should comply with the operating regulations determined by pyrometric tests: (An alkaline content of not more than 20 - 25 and not less than 10 mval/ liter, a saline content of 15 - 20 mg/liter presumably, not 15000 - 20000 as in the abstract in the paper).

With respect to the steam: Saline content corresponding to the specifications for feedwater in boiler systems. The content of carbon dioxide is not specified. The separators have to be equipped with

Card 1/2

MAKET, A.P.

AKOL'ZIN, P.A.; GURVICH, S.M.; KOTLYAR, R.V.; KOT, A.A.; MAMET, A.P.;
MIKHAYLENKO, P.S.; PROKHOROV, F.G.; SOKOLOV, I.M.; CHERNOVA, L.A.;
SHKROB, M.S.; YANKOVSKIY, K.A.; GUREVICH, L.S.; POLYAKOV, V.V.

To the editors of "Energetik." Energetik 5 no.3:11-12 Mr 157.
(MIRA 10:3)

1. Vsesoyuznyy teplotekhnicheskiy institut im. Dzerzhinskogo (for Akol'zin, Kot, Yankovskiy) 2. TSentral'nyy kotoloturbinnyy institut (for Gurvich, Mamet,) 3. Teplo-elektro-proekt (for Gurevich).4.Ministerstva elektrostantsiy (for Kotlyar, Prokhorov). 5. Teplovaya elektricheskaya tsentral'naya stantsiya No.9 (for Mikhaylenko, Polyakov) 6. Perevyazochnyy etapnyy punkt (for Sekolov). 7. Moskovskoye rayonnoye upravleniye energokhozyaystva (for Chernova). 8. Energiticheskiy institut Akademii nauk SSSR (for Shkrob).

GURVICH, S.M., inzhener; MAMET, A.P., doktor etkhnicheskikh nauk.

*xternal treatment of water in low-capacity installations. Energetik
5 no.2:24-26 f '57.

(Feed-water purification)

GURVICH, S.M., inzhener; MAMET, A.P., doktor tekhnicheskikh nauk. External treatment of water in low-capacity installations. (MIRA 10:2) Energetik 5 no.1:31-33 Ja '57. (Feed-water purification)

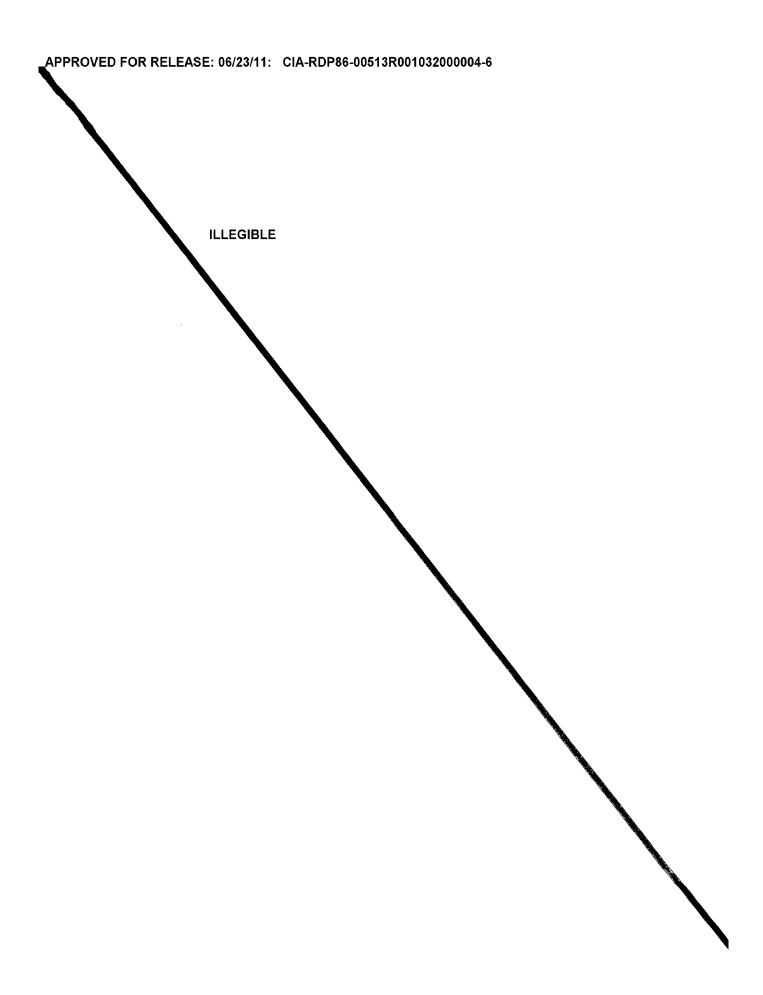
MAMET, A.P., doktor tekhn. nauk; GURVICH, S.M., inzh.

Combined ammonium-sodium water cationing. Teploenergetika 4 no.12:
47-52 D '57. (MIRA 10:11)

1. Moskovskoye otdeleniye Tentral'nogo nauchno-issledovatel'skogo kotloturbinnogo instituta.

(Feed-water purification)

CIA-RDP86-00513R001032000004-6



SOV/123-59-15-59915

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, pp 144 (USSR)

AUTHOR:

Mamet, A.P.

TITLE:

Methods of Protecting Steam Boilers From Corrosion When not in Operation

PERIODICAL:

V sb.: Vnutrikotlovyye fiz.-khim. protsessy, vodopodgotovka i vodn. rezhimy kotlov na elektrost. vysokikh i sverkhvysokikh parametrov. M., AN SSSR, 1957, pp 396 - 416

ABSTRACT:

The article has not been reviewed.

Card 1/1

137-58-4-7907

Alkaline Chromate and Alkaline (cont.)

C forms on the surface of the metal. 40 g PF is added per ton of feed water. The alkalinity in this case is 20 mg/equiv-liter. As distinct from the chromates applicable to soft BW, PF may also be used for hard BW. Phenol C are of lower strength than the chromate variety and, therefore, any interruption in the application of the reagent induces boiler corrosion. In view of the volatility of the major components, PF undergoes little concentration in the BW; this results in an increased consumption of the reagent.

G.K. Boilers--Corrosion prevention 2 Locomotives--Boilers--Corrosion prevention 3 Alkaline chromate--Applications 4. Alkaline phenol--Applications

Card 2/2

MAMET, A.P.

TITLE:

137-58-4-7907

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 221 (USSR)

Mamet, A.P., Movshits, L.Ye., Grishakova, V.P.

AUTHORS:

Alkaline Chromate and Alkaline Phenol Processes for Corrosion Protection of Locomotive Boilers (Shchelochno-khromatnyy i shchelochno-fenolinyy rezhimy kak sposoby zashchity parovoz-

nykh kotlov ot korrozii)

Sb. statey po energetike. Moscow, Metallurgizdat, 1957, PERIODICAL:

pp 230-245

There are two stages in the alkaline chromate process: crea-ABSTRACT:

tion of a protective iron-chromate coating (C) and continuation of the formation of the C. During the first stage, a chromate strength of 150-200 mg CrO3 per liter is maintained in the boiler water (BW), while during the second it is 30 to 50 mg/liter. The alkalinity of the BW during either stage is 20 mg equivalents per liter. The use of chromates provides reliable corrosion protection if the alkalinity of the BW is simultaneously maintained, but this method is limited by the shortage of chromates. Of the other methods of treating BW, the most effective is that of the "phenol

fraction" (PF). When PF is added to the boiler, a thin protective Card 1/2

IVANOV, V.S.; FRIDMAN, S.M.; GOLUBTSOV, V.A., redaktor; GURVICH, S.M., redaktor; KOSTRIKIN, Yu.M., redaktor; MAMST, A.P., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor

[Reference manual of chemical and power engineering; in three volums] Spravochnik khimika-energetika; v trekh tomakh. Fod red. V.A.Golubtsova i dr. Moskva, Gos. energ. ind-vo. Vol.3.

[Oils and greases] Masla i konsistentnye smazki. 1957. 248 p.

(MLRA 10:6)

(Lubrication and lubricants)

Mamet, a.P.

AID P - 4379

Subject

: USSR/Power Engineering

Card 1/1

Pub. 110 a - 5/17

Authors

: Mamet, A. P., Dr. Tech. Sci., and R. P. Stashko, Eng. Central Power and Steel Institute

Title

: Research on ammonia ionization of feed water

Periodical: Teploenergetika, 5, 25-30, My 1956

Abstract

: The results of experiments with matruim-ammonia ionization of water are reported. The possibilities of a simultaneous ionization process are discussed with

the aid of 12 tables.

Institution: None

: No date Submitted

MESHCHERSKIY, Nikita Alekseyevich; MAMET, A.P., redaktor; LARIONOV, G.Ye., tekhnicheskiy redaktor.

EASE: 06/23/11:

[Organization of the operation of water processing equipment in industrial steam power plants] Organizatsiia ekspluatatsii vodopod-gotovitel'nogo oborudovaniia promyshlennykh teplosilovykh stantsii.

Moskva, Gos. energ. izd-vo, 1956. 366 p. (MLRA 9:6)

(Steam power plants)

CIA-RDP86-00513R001032000004-6

MARKET, A. P.

Subject

: USSR/Electricity

Card 1/1 Pub. 26 - 18/29

Authors : Kochneva, Ye. G., Eng., A. P. Mamet, Doc. Tech. Sci.,

and Ye. I. Fayn, Eng.

Title : Testing of a salt concentrator

Periodical : Elek. sta., 10, 51-53, 0 1955

Abstract : The authors describe the testing of a salt concentrator

of the BPK type for testing the salt contents of high pressure saturated steam. They present results in

AID P - 3776

three tables. Two drawings, l diagram.

Institution: None

Submitted : No date

MAMET, A.P.

AID P - 2335

Subject

: USSR/Engineering

Card 1/1

Pub. 110-a - 16/17

Author

Mamet, A. P., Dr. of Tech. Sci.

Title

: On the book Feed Water Treatment at Electric Power Plants by I. F. Shapkin. Gosenergoizdat, 1954. (Book review)

Periodical: Teploenergetika, 5, 62-64, My 1955

Abstract

The author gives a detailed account of this book published in 1954 as a textbook for technikums. The contents of this book are severely criticized and many errors are listed. Thorough review and correction are recommended.

Institution: None

Submitted : No date

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000004-6

MAMET, A.P.

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 5/16

Authors : Mamet, A. P., Doc. of Tech. Sci. and Kabanova, A. I.

AID P - 1828

Title : Sodium-zeolite condensate treatment for the feeding of the once-through high-pressure boilers

Periodical: Teploenergetika, 3, 21-23, Mr 1955

Abstract: The authors describe the results of sodium zeolite treatment of condensate which is used to feed an industrial once-through boiler with steam separator (Sulzer boiler, p = 100 atm, t = 500°C). It was found that the salt contents of the water and its alkalinity increased at the expense of the pressure in the condensate of ammonia and carbon dioxide. One table.

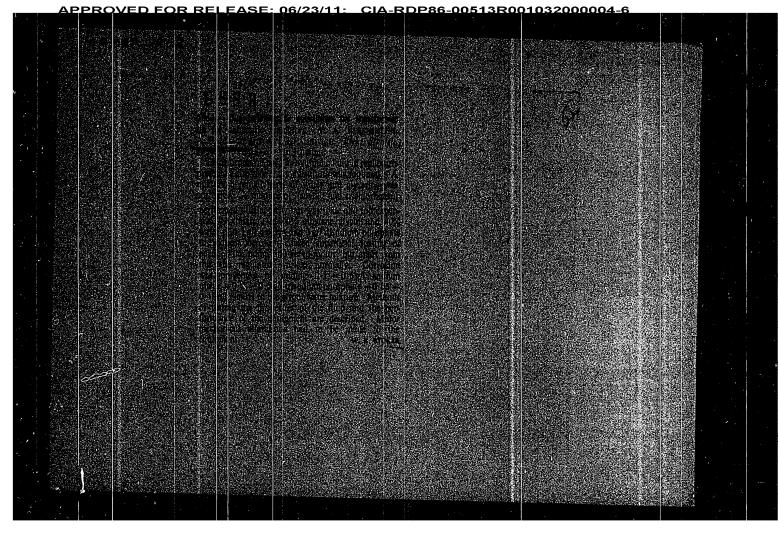
Institution: Tsentroenergometallurgprom

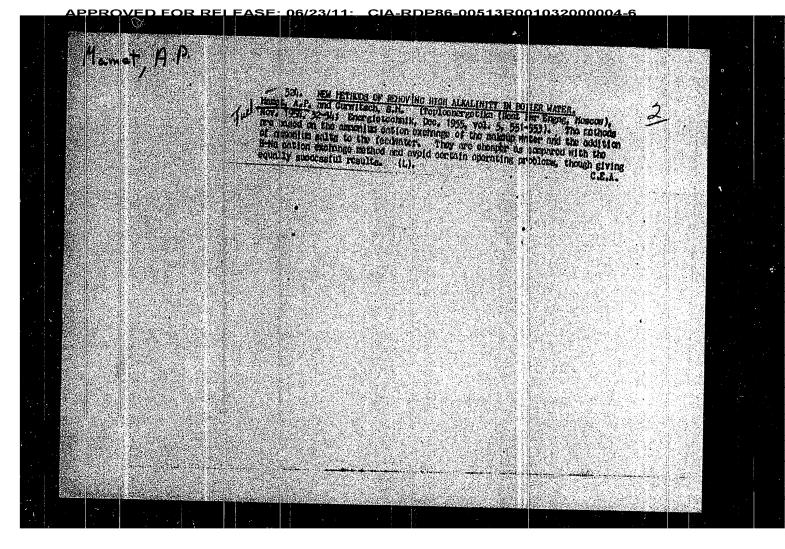
Submitted: No date

KRUSHEL', Georgiy Yevgen'yevich; MAMET, A.P., redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor

[Formation and prevention of deposits in water cooling systems]
Obrazovanie i predotvrashchenie otloshenii v sistemakh vodianogo okhlazhdeniia. Moskva, Gos. energ. izd-vo, 1955. 222 p. (MLRA 8:7)

(Refrigeration and refrigerating machinery)





MAMET, A. P.

Dissertation: --- "Corrosion and Protection of the Metal of Equipment Exposed to Intense Heat." Cand Tech Sci, Moscow Inst of Power Engineering, Moscow 1953.

W-30928

SO: Referativny Zhurnal, No. 5, Dec. 1953, Moscow, AN USSR (NY333333)

EASE: 06/23/11: CIA-RDP86-00513R001032000004-6

MARET, A. P.

Subject

: USSR/Engineering

Card

: 1/1

Author

: Mamet, A. P., Kand. of Eng. Sci.

Title

: Significance of Oxidizers in Feed Water (Advice to

AID - P-80

Industrial Laboratories)

Periodical

: Izv. V.T.I., v. 21, #3, 24-25, Mr 1952

Abstract

The corrosion effect is explained by the presence of oxygen in feed water and also by the depolarization of corrosive micro-and macroelements. The author proposes further study of the corrosion effect on the basis of periodical analysis of feed water reported by many

power plants.

Institution:

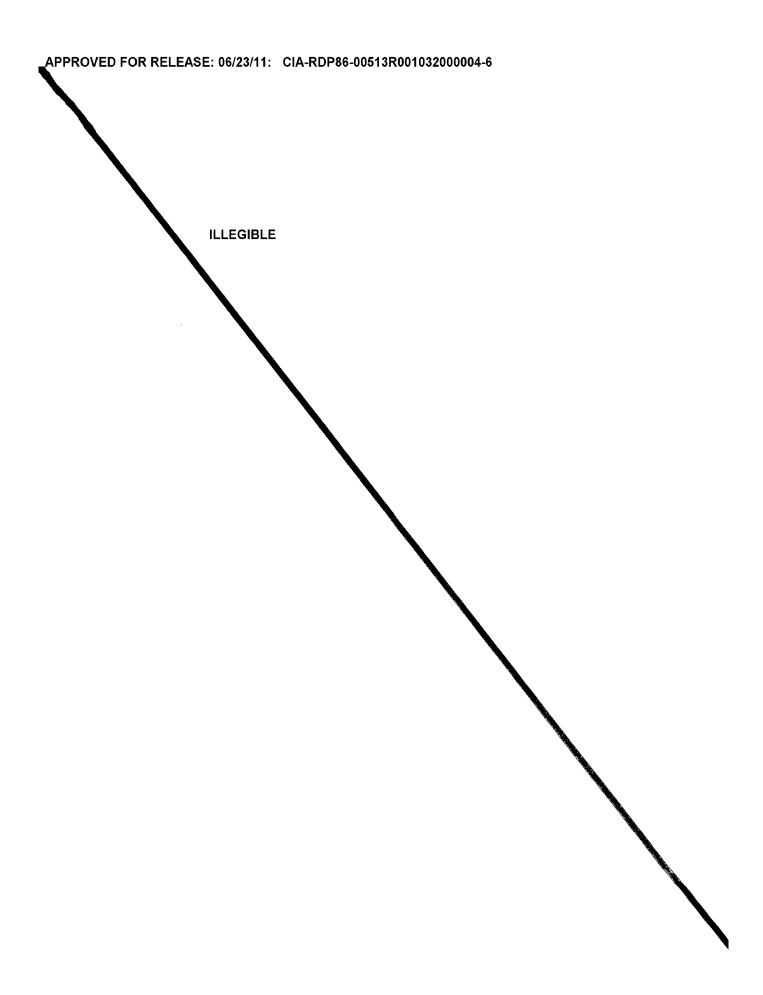
Feed Water Laboratory of the All-Union Heat Engineering Inst. im. F. E. Dzerzhinskiy.

Submitted

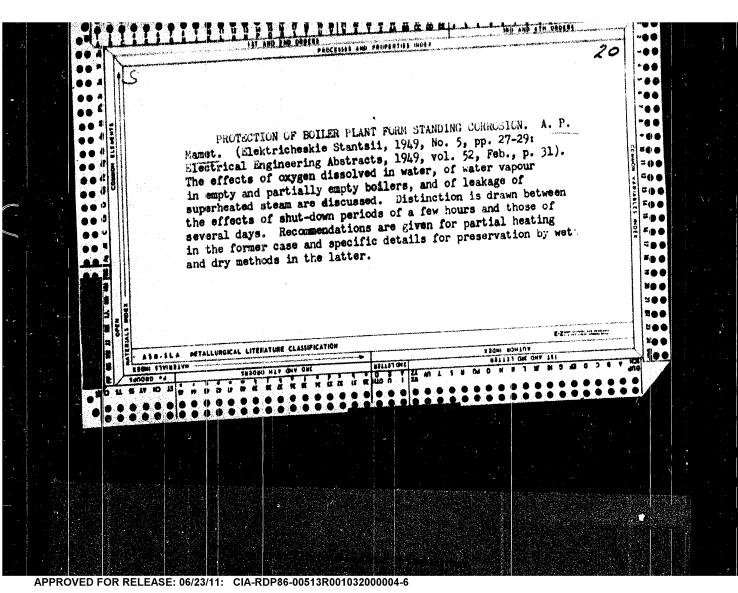
: January 11, 1952

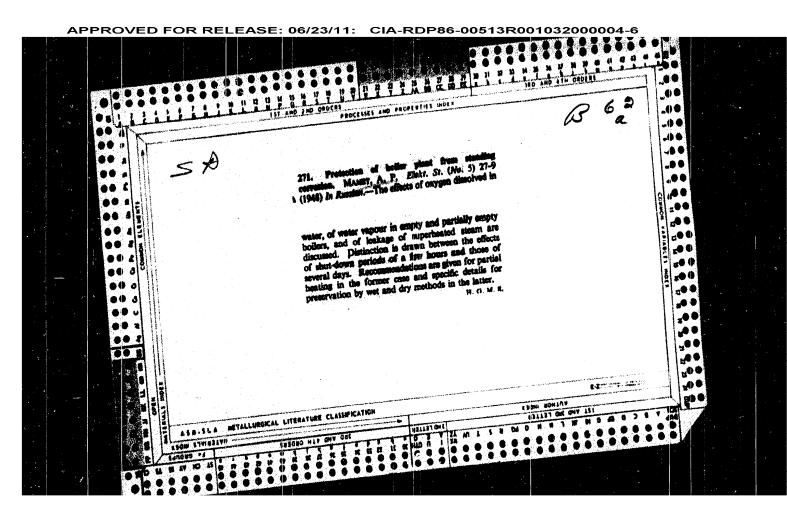
<u> APPROVED FOR RELEASE; 06/23/11: CIA-RDP86-00513R001032000004-6</u> MAMET, A. P. Korroziia teplosilovogo oborudovaniia elektrostantsii /Correston of the thermal power equipment of electric stations /. Moskva, Gosenergoizdat, 1952. 296 p. SO: Monthly List of Russian Accessions, Vol 6 No 4, July 1953

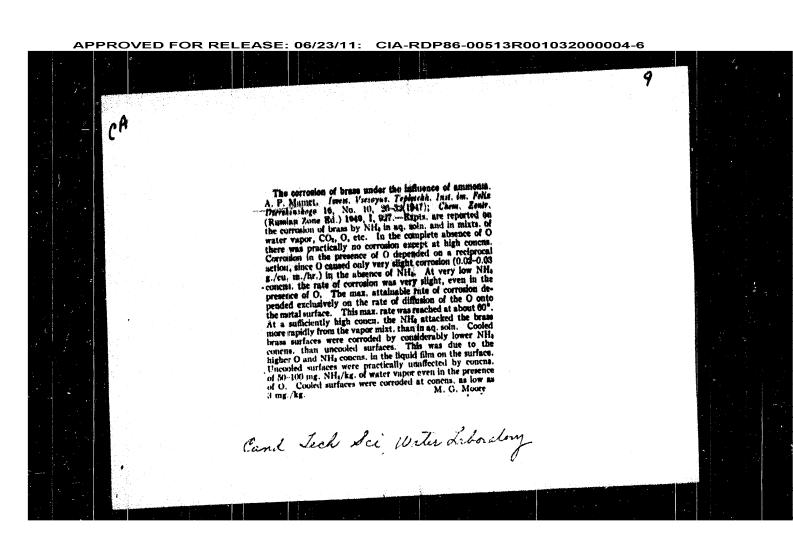
MANET, A. P., GLUSHENKO, V. V. Technology (Decxygenation of water with steel shavings). Moskva Gosenergoizdat, 1951. Monthly List of Russian Accessions, Library of Congress, Hovember 1952. UCLASSIFTED.

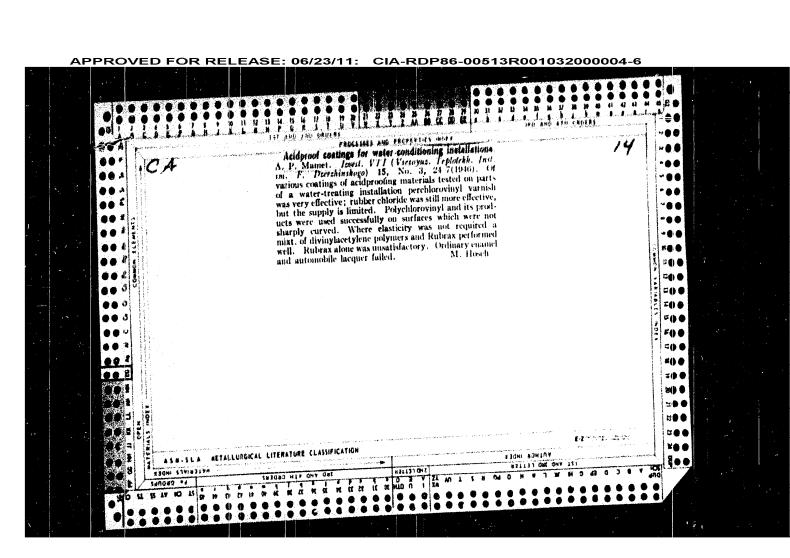


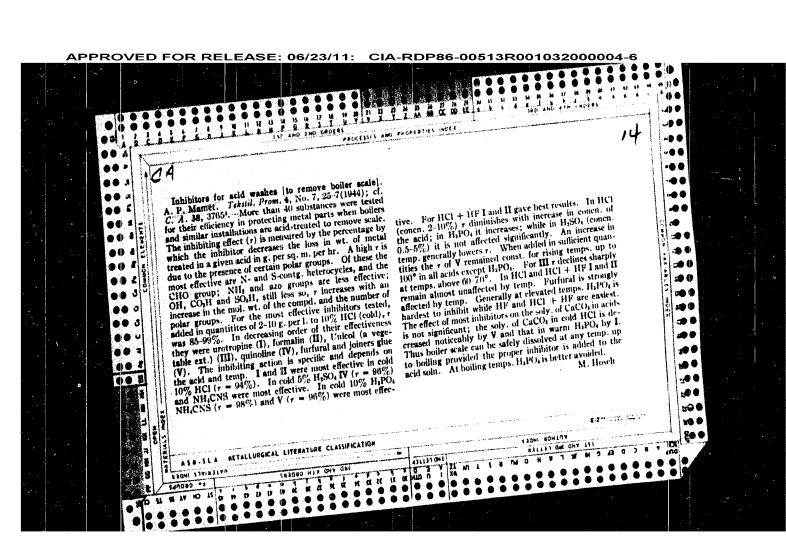
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000004-6











APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000004-6 Substitutes for HCl for chemical removal of boiler scale.

A. P. Mantet. Tekstid, Prom. 4, No. 1, 27 8(1944).

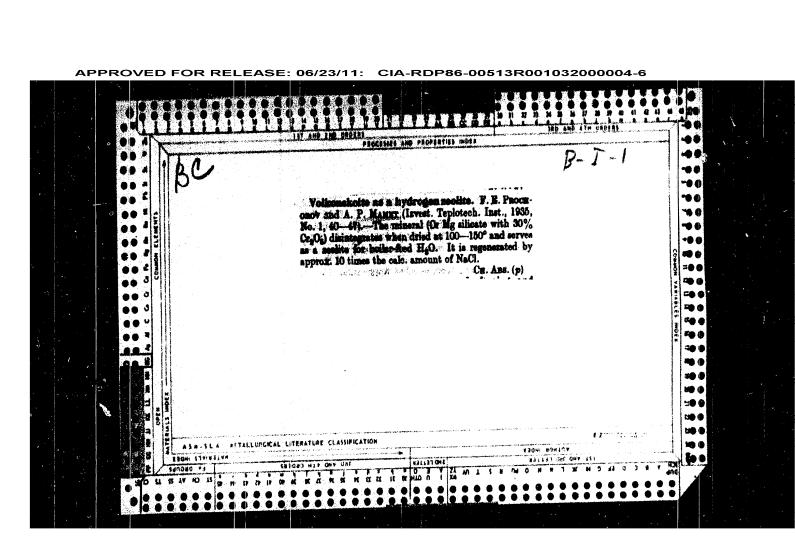
H. D. and H. P.O. are most effective against various teste least against silicate scale. Sulfate scale is most conveniently removed with phosphates. Na.P.O. is conveniently made from superphosphate and lye. Si scale is best removed with a mixt. of. HCl and Nat. For best results a preliminary test should be made in each case.

M. Hoseh -60 F (1) 3() **(** ~() • -00 ~() () <u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000004-6</u>

CHALAPSINA, E. V. and MAMET, A. P., And MOVSHITS, L. E.

"Automatic Determination of Alkalinity and Hardness of Condensates," Zaved Iab., 1938, 7, 784-90.

Hardness is determined by photoelectric measurement of the turbidity given with Leimann's reagent. Alkalinity is similarly determined photo-colorimetrically with alizarin-red.



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000004-6 6 g 0 4¹⁴0 ● ##CC45555 AND P#CF1#5185 10174 .. () 6 - () 🐞 0. - 0 0 .00 -0. Permutite treatment of sea water. A. P. Mannet and 1. N. Azarko. Investiga Teplatekh. Inst. 1933; No. 10, 30-4.—Sea water can be softened with permutite to 0.8 2-2.5° hardness (German), depending upon the conen. of Na. The effect of the glauconite when treating sea water (1 cu. m. per hr. through a 180-mm. layer) is for Caspian Sea water 0.38% and for Black Sea water 0.38%. An increase in the filtration velocity and templowers the efficiency of the treatment. The expts. are described. - (Þ. 🗘 e**0 €**

EASE: 06/23/11: CIA-RDP86-00513R001032000004-6 MAMESTVALCVA, A.I.; SPIRIN, A., red. [Protecting a petcoleon-distallation pressure pipe-still from corrosion] Zashchita nefteneregonno) at-mosferno-trubchatoi ustanovki ot korrozia. Baku, Azerneshr, 1964. 97 p. (MIRA 18:2)

06/23/11: CIA-RDP86-00513R001032000004-6 POPOVA, N.M.; SOKOLISKIY, D.V.; BABENKOVA, L.V.; MAMESHEV, R. hydorgenation of cottonseed oil on nickel-kieselguhr and nickel-chromium catalysts over coal in absolute etnyl alcohol. Izv. AN Kezakh. SSR.Ser. khim. nauk 15 no.2:59-64 Ap-Je '65 (MIRA 18:9)

EASE: 06/23/11: CIA-RDP86-00513R001032000004-6 KAUFMAN, Stefan (Katowice); MAMES, Jakub (Katowice) Ultimate strength of prestressed concrete continuous beams. Archiw inz lad 6 no.4:397-452 '60.

APPROVED FOR RELEASE; 06/23/11: CIA-RDP86-00513R001032000004-6

MAMES, J.

The computation of bends in beams made of cable concrete. p. 151

Vol. 12, no. 5, May 1955 INZYNIERIA I BUDOWNICTWO Warszawa

Source: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2 Feb. 1956